

THE TECH

VOL. XXXII. NO. 51

BOSTON, MASS., FRIDAY, DECEMBER 6, 1912

PRICE TWO CENTS

SHOW ORCHESTRA GREATLY IMPROVED

Will Play at Winter Concert and Tech Show in Place of Hired Orchestra.

Arrangements are now completed whereby the Tech Show Orchestra will play at the Winter Concert on next Friday evening, December 6th.

The Orchestra, under the management of Tech Show, has made rapid progress until they have reached a state of perfection never before realized by an Institute student orchestra. It consists of 8 violins, 1 trombone, 3 clarinets, 6 cellos, 1 viola, 1 flute, 1 cornet and a piano. The Orchestra has already played at several social affairs and has always been a tremendous success.

It is the intention of the Show to use this Orchestra at all of its performances instead of hiring a professional orchestra, and it is felt that this will greatly increase the already unbounded interest in Tech Show among the student body. The list of music contains all the latest songs and selections of the more popular operas, and the concert is certain to be a great musical success.

The Winter Concert is the one shining light in Institute social affairs of the first term, and the management wishes every man in Technology to attend for this reason, as well as to hear the first Institute concert of the Tech Show Orchestra, an organization which is rapidly making a name for itself.

COURSE XIII MEETING.

All Sophomores Elected to Membership in Society.

The Naval Architectural Society held an important business meeting yesterday afternoon. All the second year men in Course XIII who are eligible for membership were elected to the society, and as suggested at one of the previous meetings, the matter of selecting students to speak before the members was discussed. The society finally passed a motion to that effect, and T. T. Yeh, '13, and Walbridge, '14, were appointed to address the next meeting to be held on Tuesday, December 17th. The subjects on which they will speak will be announced in a later issue of THE TECH.

GROUP SYSTEM AT YALE.

Following Harvard's change last fall from the "elective" to the "group" system in study courses comes the announcement that Yale has abandoned the elective system in favor of a group system, which while allowing a limited choice in subjects, insures greater discipline in undergraduate training in the college. This step, which is being taken in more or less modified form by many educational institutions throughout the country, will, it is expected (to quote the language of the provost of the University of Pennsylvania), "raise the educational standards in America to an enormous degree."

Are you a regular subscriber to THE TECH. If so you can have it deliv-

1912 ALL-TECHNOLOGY DINNER IN UNION

Annual Undergraduate Banquet to Be Held Tomorrow at 7 O'clock P. M.

The much talked-of All-Technology dinner is to be held in the Union at 7 o'clock tomorrow evening. This dinner is in commemoration of Founder's Day, the birthday of the man to whose efforts is due the present success and high standing of the Institute, William Barton Rogers. It is also the one gathering of the year which every loyal Technology student is expected to attend, and where he can be sure of spending one of the most enjoyable evenings of his undergraduate career.

The men in charge have secured five very interesting speakers for the occasion—President Maclaurin, Mr. James P. Munroe, Mr. H. E. Keillon, president of last year's graduating class; Mr. L. H. Lehmaier, '13, and Mr. H. D. Peck, '13. During the courses of the banquet the orchestra will furnish music, which in itself, according to the committee, will be well worth the cost of admission. Furthermore, to make things the more interesting for the members of the Class of '16, the results of their election will be announced. A large attendance is hoped for as the committee promises a good time for one and all. Those who have not yet secured tickets may obtain them at the Cage by presenting seventy-five cents to the man behind the counter.

HOCKEY PRACTICE.

Cut Made in Squad—List of Men Who Are to Report Today.

Hockey practice on Thursday brought about good results, and the weak points which were shown in Wednesday's game with the Pilgrim A. A. were corrected. Manager Hurlbutt laid special emphasis on the necessity of team play, and on the fact that individual honor must always be sacrificed for the benefit of the team.

Captain Ranney, due to the Arena regulations, has made the first cut in the squad, which now numbers twenty-two men. Only those men whose names appear in the list below are to report at the Arena for practice, so that Freshmen who have been out for hockey and who have been eliminated by this cut are to report to Mr. Kanaly with their regular Gym sections on Monday, December 9.

This afternoon all candidates listed below are to report at the Gym at 4.15 for special work in preparation for Saturday's game with the Pilgrim A. A.:

Ranney, Stucklen, Eichorn, MacLoud, Foote, Hurlbutt, Fletcher, Storke, Rogers, Stern, Warren, Tapley, Roy, Vose, Stewart, Cromwell, Leeb, Hatch, Clarkson, McRae, Chadwick, Wesson.

Yale has applied for 12,000 of the seats for the Princeton game, leaving 16,000 for Princeton, where 20,000 applications were made.

GEORGE W. COLEMAN SPEAKS IN UNION

Addresses Large Crowd on Interesting Subject—Talk Witty and Instructive.

"I have something in my pocket that I never saw, you never saw and nobody else ever saw, but I will show it to you and after that neither I, nor you, nor anybody else will ever see it again." This was the statement made by Mr. George W. Coleman in his talk yesterday noon in the Union, in an effort to carry out a psychological experiment to illustrate a point in his talk on "Keeping Your Equilibrium."

He commenced by relating the story of an old colored gentleman who would relate parables that contained facts from the Bible, but the combinations were unholy. This led to the statement that it is not good things but the right balance between them that is of importance.

His first example was the relation between play and work, both good things, but bad if the balance between them is not right, for "All work and no play makes Jack a dull boy," is just as true for "all play and no work." The same balance should exist between self-development and self-expression, the former referring to acquisition of learning, and the latter to the giving out of this learning either in the performing of one's life work or by direct teaching.

The correct balance between obedience and initiative gives one the power of being able to do things in emergencies, but at the same time does not destroy all tendencies to obey orders. It was in connection with faith and caution that the psychological experiment was performed. Mr. Coleman stated that on his honor as a gentleman he would make a statement that was absolutely true, which, if our faith in his word was great enough, we would believe; but on the other hand if the men felt cautious they would not believe him. A very small percentage of the men present were willing to believe his statement and the rest wanted to be "shown." He did; for when he took from his pocket a peanut, broke the shell and took out the kernel and ate it, the crowd burst into applause. He continued, seriously, saying that it took faith to believe him, and in the same way the correct balancing between faith and caution is an advantage in religious or any other life.

He went on to say that in carrying this further he arrived at the conclusion that this theory of keeping one's balance lay at the foundation of the action of the physical universe. The balancing between the centripetal and centrifugal forces is the paramount reason for the present condition of the solar system. He concluded by remarking that had he been imbued with this idea twenty years ago his mental development would have been ten years ahead of what it is now.

Of the twenty-nine games played between Yale and Princeton since 1883, Yale has won twenty, Princeton eight and one has resulted in a tie.

The number of telephone messages sent daily in the United States surpasses the total for all the countries of Europe combined.

FINANCE COMMITTEE TO HELP COLLECT DUES

Second Meeting of Treasurers Proposes Increased Use of Publicity.

The Finance Committee held a very important meeting in the Union last night. After an excellent dinner the members listened to the report of Tech Show, 1913. It was moved that the management of Tech Show, 1913, be asked to confer with the Advisory Council of the Show and report at the next meeting of the Finance Committee as to the best means to be employed in regard to the accounting of open accounts of Tech Show, 1913.

Then the roll was called, and it was found that twelve members of the committee were absent out of a total membership of twenty-nine. It was moved and passed that the name of the treasurer of each society which fails to hand in a monthly report be published in THE TECH. The Student Secretary reported that he had not received reports from D. R. McHenry of the Architectural Society, Wm. Shakespeare of the Class of 1916, the treasurer of "Concerning M. I. T." and of the M. I. T. A. A., H. A. Babcock of Senior Portfolio, B. E. Adams of THE TECH, and E. C. Hadley of the T. C. A.

Then the reports of the various activities were read, and it was suggested that certain parts of the reports be made public through THE TECH. A motion was made and passed that a committee of three, with Mr. Peck as chairman, be appointed to investigate the matter of publishing such accounts, and it was later passed that this committee also investigate the matter of publishing lists of names of those who have or have not paid class dues. This committee consists of H. D. Peck, chairman, C. W. Brett and D. O. Dunn.

The matter of uniform receipt books was discussed, and it was recommended that numbers be used on stubs and on the corresponding receipt. Many suggestions were brought forward in regard to the system of reports now in use, and mention was made of the fact that the next meeting of the committee, to come on Jan. 9, 1913, will be the most important meeting of the year, so that a full attendance is necessary.

INSTITUTE COMMITTEE.

There will be a meeting of the Institute Committee today in Room 8, Engineering C, at 4.05 P. M. The meeting is called on account of the Winter Concert, and all members are urged to be present. The meeting will be adjourned promptly at 5 P. M.

CALENDAR.

Friday, December 6, 1912.
8.00—Winter Concert—Copley Hall.
4.15—Special Hockey Practice—Gym.
2.00—Course VI Trip to Lynn.
4.05—Institute Committee—8 Eng. C.
Saturday, December 7, 1912.
2.00—Course I Trip—Walker Steps.
7.00—All-Technology Dinner—Union.
8.00—New England Wireless Society—Tufts College.

ALL TECH DINNER TOMORROW EVENING UNION 7. P! M.

THE TECH

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FRIDAY, DECEMBER 6, 1912

We wish to compliment the Bulletin Board Committee for the excellent appearance of the boards at this time, sincerely hoping at the same time that there will be no more decadent periods. We have been very candid in our criticism and can now be equally as hearty in our praise.

STICK TO IT.

You fellows who are out for various things! How many of you are getting tired and beginning to cut meetings and practices? You are not down in your work or even a little behind. You are not simply getting tired, losing interest, and quitting? You may think that you have no chance for making the various teams and boards, but remember that even though you do not you have helped toward developing the material in them and in that way have a share in the victories which they win for Technology. Then, on the other hand, if you are not willing to help and the team loses you have also to bear a part of the blame, in your mind, if not in that of many of your friends, for perhaps if you had "stuck by the job" and pushed a man who did make the team with all your might he might have been so much the better able to turn a defeat into victory at some crucial moment.

It is perhaps unfortunate that the man who sticks, but does not make the team, receives no credit in the eyes of the public, but this cannot be helped for the present at least, and we must make the best of it. Certainly there are many incentives to drop an activity, but when you are tempted for some reason other than failure in school work just stop and reflect that the world will know you as a "quitter" and treat you accordingly.

OPTIONAL SUBJECT.

Next Editorial Due Monday at 5—Three More in Contest.

The next editorial in the Pi Delta Epsilon editorial contest, which should have been announced Tuesday morning, but was inadvertently omitted, will be due next Monday at 5 P. M. The editorial is to be upon an optional subject and should be left at the Cage addressed to the Pi Delta Epsilon Contest Committee.

Including the editorial there are three more in all to be submitted by the contestants. Men in the contest are warned that in order to qualify they must submit editorials on at least seventy-five per cent. of the subjects.

WIRELESS SOCIETY HOLDS MEETING.

Members Discuss Preparations For Complying With New Amateur Law.

Yesterday afternoon a regular meeting of the Wireless Society was held in 11 Eng. B. After a short business meeting the new law for the regulation of radio-telegraphy was discussed. All members who operate the Technology station on or after December 13 must hold amateurs' licenses, applications for which may be made to the secretary of the society, Borden, '14. Mr. W. L. Graves was elected as the Freshman member of the Executive Board.

Various methods of remodeling the M. I. T. station were discussed, and it was announced that the society expects to obtain some new apparatus shortly, which will increase the efficiency of their station. A system of log sheets was also discussed. The meeting adjourned after the following new members were elected: O. E. Strahman, F. P. Karns, H. E. White, R. E. Curtis and H. E. Morse.

The officers wish it to be understood that all men in the Institute who are interested in wireless are cordially invited to visit the station of the society. It is located at the lower end of the Lowell electrical laboratory, and is usually open during the latter part of the lunch hour and at odd intervals during the afternoon.

COMMUNICATION.

To the Editor of THE TECH:

Can you give me any information whatever on this damn "Was ist Los?" If there is anything we can do which will stop this thing I feel that it ought to be done, as the hold it is getting on everyone connected with the Institute is driving not only myself, but many dignified members of the Faculty, completely out of their heads.

As an illustration of the annoyance which this is causing, today I was pouring over our banking sheets, when in came Miss Eaton; seeing me so involved, she gasped, "Was ist los?" Hearing this again made me jump from my chair, and instead of stamping my foot on the floor, as I intended to do, my left elbow inadvertently went through the window. A little later I went into the President's office, my mind half-filled with an important matter, and half-filled with these infernal three words. I intended to say "Hod do you do," Doctor Maclaurin, and you can well imagine my consternation when what I said was, "Was ist los?"

You can readily see the terrible proportions which this ridiculous situation is reaching. We must stamp it out, and to that end I offer a reward of \$525 to any one who will enable me to lay my hands on the instigator or instigators of this outrage. I am, believe me,

Sincerely yours,
Frank H. Rand.

CORRECTION.

In Thursday's issue of THE TECH it was stated that the total registration for the year 1894-95 was 1783. The correct number was 1183, which makes the registration for this year exceed all previous records of attendance.

Two new organizations have been formed at the University of North Dakota, the anti-fussing league and the "Fussing Society." Clarence Finch, a member of the latter, was separated from his girl companion and tied to a mile post two miles away. The "Fussing Society" is making plans as to how this first move of the anti-fussers shall be dealt with.

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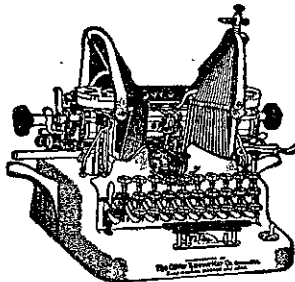
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MINING AREA MAPPED.

The United States Geological Survey has just published a detailed topographic map of an area in Missouri northeast of Joplin covering a number of mining camps in the Joplin lead and zinc district. The area mapped, which is named the Aurora quadrangle, is about 36 miles from east to west and about 15 miles from north to south and includes the towns of Aurora, Stotts City, Wentworth, Arcoxie, Reeds, Marionville, Mount Vernon, Forest Park, Verona and Pierce City, the first five of which are lead and zinc mining centers.

The area covered by the map was surveyed by the United States Geological Survey in co-operation with the State of Missouri, through H. A. Schuchert, Director of the Missouri Bureau of Geology and Mines, each organization paying one-half of the cost. The field surveying was done by H. Hodgesson and F. W. Hughes, topographic engineers of the United States Geological Survey, in 1909 and 1910. The area to the northwest and east, which includes mines in the vicinity of Joplin, is covered by the Joplin geologic folio of the United States Geological Survey, and the new map has been prepared as a base for the geologic mapping of the Aurora area by the Missouri Bureau of Geology and Mines, which will issue a report on the lead and zinc deposits of the region. The Aurora, the Joplin and the Wyandotte map, together form an accurate detailed topographic map of practically the whole of the Joplin lead and zinc region.

The area covered by the Aurora map is traversed by the St. Louis & San Francisco Railroad and the St. Louis, Iron Mountain & Southern Railway systems and by a number of rivers and creeks. It is interesting to note the several streams shown on the map from their source in small brooks, many of which are shown to be intermittently wet and dry. On the other hand copious perennial streams, several of them shown on the map, form the sources of other streams. The map shows clearly the location of every natural feature of the country and the altitudes of all places above sea level, as well as the location of the farm houses, schools, railroads, wagon roads, and all other local features. It is thus possible for every resident of the region to locate his own house and determine its altitude and its exact relation to his neighbors' houses and to roads, streams or other objects. This map was prepared by the Director of the Geological Survey, Washington, D. C., at a cost of \$100,000 and is printed on paper and cloth.

ELECTRICAL NOTES.

The custom of holding a triennial electrical show at the University of Illinois will be continued and the next is to be held on February 6, 7, 8, 1913. It will be held in the electrical laboratory of the University of Urbana, Ill., and will be given under the auspices of the Electrical Engineering Society. The show, as usual, will be conducted by undergraduate students. Electrical and manufacturing companies will be allowed to exhibit. D. C. Wood is the general manager of the show.

The Department of Electrical Engineering of the University of Illinois has added to its equipment a 200,000-watt transformer made by the General Electric Company. It will be used in studies of corona and other phenomena of high-tension lines, the determination of the breakdown point and of porcelain insulators, and the study of the action of lightning arresters and other protective apparatus.

In the United States there are twice as many miles of telegraph lines as in any other country in the world.

TRIPS OF ELECTRICAL ENGINEERING SOCIETY

Second Visit to General Electric Works at Lynn Today.

The Electrical Engineering Society has been visiting the River Works of the General Electric Company at Lynn, Mass., where they employ over 10,000 hands. Owing to the large size of the society it was necessary to run the trip in several sections, the last of which will make the trip today. The section that went yesterday brought back glowing reports of the treatment which they received at the hands of the company, as they were shown through the whole works and the various operations carefully explained to them. The company manufactures motors and small transformers at the Lynn works, but many of the construction details of the smaller pieces of apparatus are identical with those of the larger.

President Woods announced that the society contemplated giving a dinner in the near future but that he had been unable as yet to secure a speaker for the occasion. This dinner, he said, would probably take place in a week or two, and he desires that all members of the society be present as he hopes to secure an excellent speaker. Who this speaker will be and the exact date of the dinner will be announced later in THE TECH.

POTASH IN NEBRASKA.

Considerable interest has been aroused in the discovery of soluble potash salts in certain lakes in western Nebraska. The report of their discovery together with samples of the deposits, first came to the Geological Survey from Mr. Carl Modesitt, who has been interested in the possibility of developing the deposits on a commercial basis. One lake was visited by R. B. Dole, of the Geological Survey, who collected from the deposit samples whose potash content has been determined.

Many shallow lakes, 50 to 500 acres in extent, occupy depressions among the sand hills of western Nebraska. At the ordinary stage of water most of the lakes have no surface outlet and some of them are apparently underlain by impervious strata, which prevent the escape of the water by seepage. As a result they form shallow evaporating pans in which large quantities of the alkaline or saline material of the tributary drainage water accumulate and become more or less concentrated.

The lake visited by Mr. Dole, known as Jesse Lake, situated in T. 25 N., R. 46 W., covers about 400 acres and is one of the largest of these bodies of water. It varies in depth from 30 inches to dryness, according to the rainfall and season. The land on the northwest side of the lake is swampy and the water there is not so concentrated in salts, as possibly this is where seepage enters. When the lake was examined in May a strip of the lake shore about 100 feet wide was exposed and the water in the lake was about a foot deep. The shore is brownish-black sticky mud, devoid of vegetation. The lake is entirely surrounded by typical sand hills, and probably a rise of 4 or 5 feet in the water level would be necessary to effect surface run-off.

A partial analysis was made of several samples of water collected at Jesse Lake. The results of these analyses are given below. Nos. 2 and 3 represent water from the lake, and No. 4 is a crust from the top of a pit dug on the shore of the lake. No. 5 is mud from a depth of 20 inches on the shore of the lake, and No. 6 is from a depth of 10 inches. The determinations were made by A. R. Merz at the Co-operative Laboratory for potash tests, Mackay School of Mines, Reno, Nev., who reports that the salts consist mainly of carbonates but contain also chloride and sulphates.

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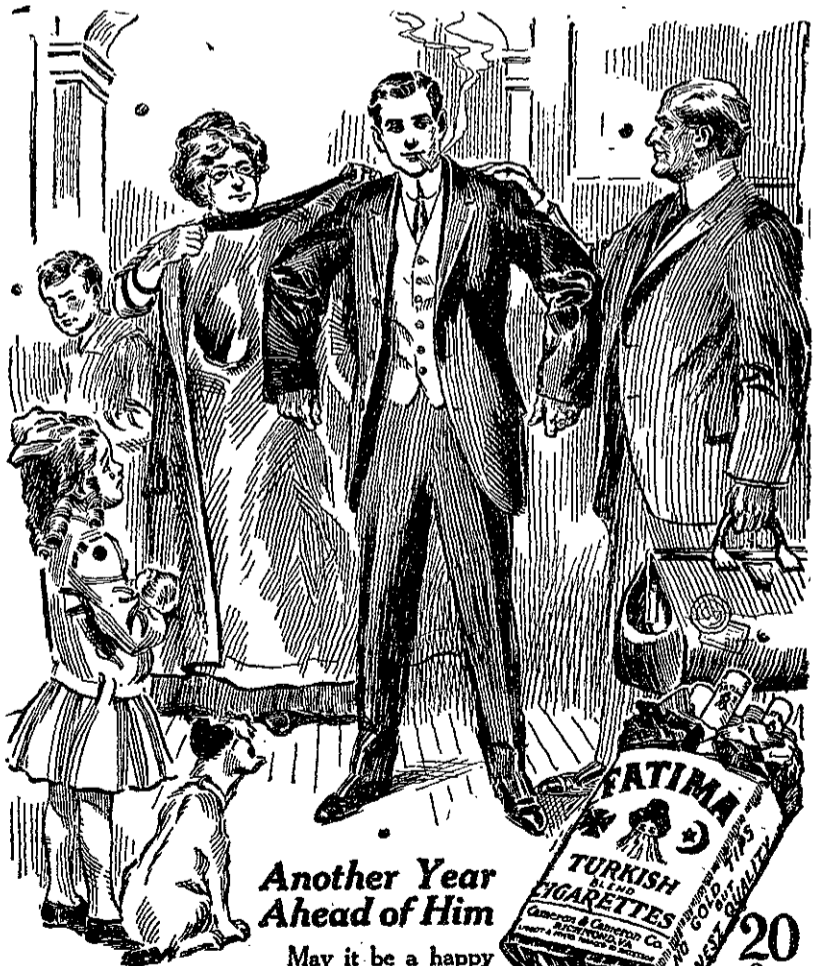
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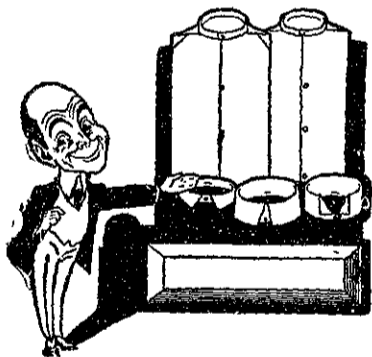
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FACULTY NOTICE.

Fourth Year Hydraulics—Course II.

Sections 1, 4 and 5 will recite in Room 20, Engineering B, on Tuesdays, Thursdays and Saturdays, from 9 to 10 A. M.

Sections 2 and 3 will recite in Room 49, Engineering A, on Tuesdays and Thursdays, and in Room 21, Lowell, on Saturdays, at the same hour.

All sections should prepare articles 6 to 12 inclusive of Russell's Hydraulics.

WALTER HUMPHREYS,
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ATTENTION-SENIORS - Pipe Committee will be in Union from 1 to 2 Monday and Tuesday. Last chance to obtain pipes.

HARVARD ALUMNI CLUBS OF PHI DELTA THETA will hold its first meeting Friday evening, December 6th, 1912, at 7:30 P. M., in Room 62, Perkins Hall, Cambridge, Mass. It is important every member be present.

Homer H. Berger, Secretary

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