

THE TECH

VOL. XXXII. NO 39

BOSTON, MASS., THURSDAY, NOVEMBER 20, 1912

PRICE TWO CENTS

SANGER CHOSEN TO COACH TECH SHOW

Coach of Last Year's Show Engaged for This Year—Has Selected Book.

Eugene Sanger, of New York City, has been engaged by the management of Tech Show to coach this year's Show. General Manager Weeks and Stage Manager Fiske were in New York a few days ago and made all the final arrangements. While in New York they investigated the work of the dramatic clubs at Yale, Princeton and Columbia Universities, and they got many valuable suggestions for use in Tech Show, 1913.

In former years Coach Sanger has had the contract for staging the Princeton Triangle Show at the same time as the Tech Show, but this year the Princeton show comes during the Christmas holidays, and consequently he will be able to spend all his time



EUGENE N. SANGER.

here in Boston during the Show season. About ten very competent men were considered and the selection of Mr. Sanger was made only after a rigid investigation on the part of the Show management.

Coach Sanger is one of the few men in his profession who realizes how little time students have for rehearsals, especially Tech men, and he plans to make more of his time this year than ever before. He will insist that the lines be learned thoroughly at the outset, and there will be absolutely no loafing around at rehearsals. Coach Sanger has made his selection of the book, and he says it is one of the best he has had for many years. The name of the book and the names of the authors will be announced at the Kommers' dinner, November 23. It is the general opinion that this year's Show will far exceed any that have been given in the past.

GLEE CLUB REHEARSAL.

The following men are requested to report for the Glee Club rehearsal this afternoon at 4.40: H. O. Glidden, F. B. Morton, W. Gurney, F. R. Jones, Wagner, M. B. Dalton, F. A. Dale, P. Shedd, P. Whitman, Whitehead, H. B. Shepard, R. B. Walter, E. S. Coldwell, McEwen, G. S. Breaker, G. W. Blakely, T. L. Chase, O. G. Norton, J. P. Uhlinger, E. D. Hayward.

FORTY-FIVE HOCKEY CANDIDATES REPORT

Either a Practice or a Talk Will Be Held Friday Afternoon.

The first meeting of candidates for the Varsity hockey team was held in Room 26, Rogers, yesterday, at 1 o'clock. The main purpose of the meeting was for Captain Ranney to get a line on those who are going out for hockey, and to make them (Continued on Page 2.)

QUESTIONS AND ANSWERS.

T. C. A. Speaker Will Hold Quiz in Union This Noon.

The T. C. A. is going to have an innovation in their meeting this noon at 1.30 P. M. It will be an entirely new kind of meeting, no address or flow of oratory. The Rev. Allen A. Stockdale, the speaker, will launch in immediately and answer the questions that have been accumulated in the Question Box. Many questions have been handed in of a practical nature, and the speaker is well qualified to answer them. He is pastor of the Union Congregational Church and has had many experiences, having become acquainted with many phases of life, from baseball players to railroad men. He will answer all the questions that have been handed in, and if time allows he will answer those that are asked from the floor. Old students will remember him from his talk here last year, "The Road to Cynicism." The T. C. A. wishes to announce that if this meeting is a success more meetings of this nature will be held in the future.

CHEMICAL SOCIETY

Mr. Whiting to Address Open Meeting in Union Tonight.

Tonight the Chemical Society will hold its second monthly meeting. Mr. Jasper Whiting, M. I. T. '89, has been secured to speak on "The Development of an Electrolytic Process," and every member of the Chemical Society, every man in Courses V., VIII., X. and XIV., and every student who is interested is invited to the meeting. The talk will be given in the Union at 7.15, and will be preceded by a short business meeting of the Chemical Society.

Mr. Whiting is President of the Whiting Company of this city. He is the inventor of the Whiting Electrolytic Cell, and is well acquainted with electro chemistry, theoretical chemistry and chemical engineering. He graduated from the Institute as a Mining Engineer, and since that time has departed so far from his original training that he is known as a chemist and not as a miner. Professor Thorpe told his class yesterday morning that Mr. Whiting is a man who can speak well on any subject. He also said that Mr. Whiting is as good a speaker as he has heard, and told the men that everyone of them should be at the meeting.

This meeting will give any of the upperclassmen in Courses V, X and XIV who have not yet joined the Chemical Society an opportunity to see what the society expects to do for its members at various times during the year.

CORNELL PICKED TO WIN CROSS-COUNTRY

Technology Team Leaves Tonight For Intercollegiate Race at Ithaca.

The I. C. A. A. A. cross-country race next Saturday will probably be the most interesting of recent years. Cornell is picked to win the championship for the twelfth successive year. The fight for second place will be between Harvard and Dartmouth, with the latter seeming a shade the better. Tech will meet two strong aspirants for fourth place in Pennsylvania and Syracuse, but should finish ahead of both. Princeton, Columbia and Yale have shown no strength, and their chances may be disregarded. Colgate University and the College of the City of New York have not been in any meets this season and so nothing can be predicted regarding them.

John Paul Jones has a clear title to first place, with Copeland of Harvard and Taber of Brown contending for second honors. Coach Kanaly does not expect any of the Tech men up among the leaders, but is looking for them to finish well enough to win fourth place. The members of the team are evenly matched and should finish close together. The men have been coming out faithfully on every training day, and as a result all are in prime condition. The Cornell course is one and four-tenths miles longer than the N. E. I. C. A. A. course, but the increase should not affect the team, as they have been running longer distances than the Cornell course.



CAPT. NYE OF C. C. TEAM.

The last hard work of the team was yesterday, when they ran three miles at Tech Field. The team, composed of Nye, Hill, Palmer, Wilkins, Wall, Lee and Donney, will leave for Ithaca at 7.35 o'clock tonight and will walk over the course Friday in order to be (Continued on Page 3.)

MEETING OF THE MINING SOCIETY

Two Very Interesting Talks Given on South America and Panama.

The second regular meeting of the Mining Engineering Society was held in the Union last evening and many were present. The first talk was by Mr. Howard, of the Civil Engineering Department, on his experiences in the Panama Canal region. He told about the commission of four engineers, two appointed by the chief justice, one from Costa Rica, and one from Panama, to make plans for the survey of the boundary between Costa Rica and Panama. On January four parties sailed from New York to Panama and made their headquarters in a small town 140 miles west of Panama, in the territory controlled by the United Fruit Company. They were given very complete outfits, consisting of tents, instruments, provisions, etc., before setting out for their separate stations.

He then described in detail the features around the camp at which he was located. He described how the banana plantations were started and described the difficulties of surveying in the very heavily wooded country. The only way they could travel was by canoe or walking. The packs were transported in canoes and then on (Continued on Page 3.)

RIFLE CLUB MEETS.

Several New Men Report and First Practice Proves a Success.

With the advent of several new members Wednesday afternoon, all of whom possessed shooting ability, it looks as if the rifle team, and incidentally the Rifle Club, would be among the best and strongest college shooting organizations in the country. Among the new candidates are William Chandler, captain of last year's crack Brookline High team, and Walter Fowle, captain of the Woburn team. President Rudolf is expected to show up well among the older members, while Casselman has been doing phenomenal work in practice. It is earnestly desired that all men interested in shooting will come to the range of the First Corps' Armory on Columbus avenue any Monday, Wednesday or Friday afternoon, and show their enthusiasm and talent. As rifles, targets and ammunition are provided free of expense, no man need feel that the club will prove a drain on his finances.

WEATHER.

Forecast for Boston and vicinity: Fair and somewhat warmer; moderate southwest winds.

CALENDAR.

Thursday, November 21, 1912.

5-6—Wrestling—Gym.
7.15—Chemical Society—Union.
7.35—Team off for Ithaca.

Friday, November 22, 1912.

4.10—Chess Club Meeting—Union.
5.00—Hockey Team Meets—Union.
5-6—Wrestling—Gym.
7.15—M. A. H. S. Club—Union.

Saturday, November 23, 1912.

3.00—Tech Show Lyric Competition Closes.

THE TECH

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THURSDAY, NOVEMBER 21, 1912

SATURDAY'S RACE.

This coming Saturday is the day set for the I. C. A. A. A. cross-country run, to be held at Ithaca, N. Y. Now that the Advisory Council has reconsidered its decision, and the M. I. T. team will take part, it is the duty of the student body, as a whole, to cheer the runners on, and make them feel that their work is known and appreciated.

The team is fast and will make a good showing, but there must be a big crowd of rooters to give a few good cheers. Let every man, therefore, feel it a personal obligation to night, to show the runners that they have the support of every man in Technology.

Tonight, at 7.30, from Trinity Place Station, the team is to leave for Ithaca, and every loyal member of the Institute should be there to see them off. H. O. Glidden, the official cheer leader, and W. R. Mattson, President of the Senior Class, will take charge of the cheering.

HOCKEY MEETING.

(Continued from Page 1, Col. 2.)

acquainted with the plans for the coming season. Forty-five men responded to the first call, of whom thirty are going out for forward and fifteen for defence. Because of the absence of Manager Hurlbutt, it was impossible to discuss the schedule, but it is hoped that there will be a game with Princeton this year.

Captain Ranney informed the men that the trips were all arranged in such a way that they would not interfere with their studies, so no one should hesitate about going out on this account. The big trip is taken during the mid-year vacation, and the others are taken Saturday afternoons.

The use of the Arena on St. Botolph street has been obtained again for practice. All Freshmen who are substituting hockey for Gym must attend every practice as regular attendance will be taken.

The following is a list of the candidates: B. B. Levy, R. Cannahan, A. E. Moody, R. A. Fletcher, A. E. Halberstadt, H. L. Lieb, D. G. Crowell, F. E. Stern, R. W. Beckman, R. L. Fletcher, Delaban, J. W. Stafford, N. MacRae, G. W. Blakeley, E. L. Osborne, F. W. Pommer, A. E. Storm, H. G. Storke, N. Mumford, N. I. MacLeod, J. B. Jenny, W. Japley, E. H. Clarkson, Jr., C. B. Rogers, W. G. Goodwin, C. L. Foote, H. J. Bert, B. Hatch, H. B. Chapman, F. Townsend, F. C. Hatch, J. L. Quincy, H. M. Warren, G. Robb, C. L. Stocklen, H. Gray, J. M. McDevitt, L. Bartlett, J. B. Chadwick, Wm. S. Black.

PROMINENT SPEAKERS ADDRESS ELECTRICALS

Interesting Lectures Given On Storage Batteries and Wire.

The first speaker at the meeting of the Electrical Engineering Society, held at the Union last night, was Mr. Cook, of the Exide Storage Battery Company. He began by mentioning the great extent and diversity of the storage battery field, and the almost universal popular ignorance of the subject. Among the branches of industry in which it finds extensive application are electric vehicles, both for pleasure and commercial purposes, signal apparatus, telephones, submarines, wireless stations, power plants on yachts and battleships, and emergency overload auxiliaries for ordinary power plants.

Mr. Cook spoke especially of the great progress made in recent years, both in the scientific construction of the batteries, and in the extent to which they are used, and in capital invested in them. He gave exact figures on the latter point, and showed slides of many different power plants, vehicles and other branches of storage battery uses. He also showed diagrams and plots of improved service given by the modern improved batteries over the older type. The chief improvements consists of methods of controlling the growing of the positive plate and the shrinking of the negative.

He then mentioned several common errors in the use of storage batteries, particularly by so-called practical men. Of these, the most common is the addition of acid to replace evaporation, pure water being practically the only thing lost in this process. Another common error is attempting to determine the condition of a battery merely by its voltage. Mr. Cook showed a diagram of the discharge of a battery where the voltage remained practically constant while the density of the electrolyte, indicating the power left in the cell, went rapidly down. Another common error which has on occasions resulted disastrously, is the omission of ventilation for use on a large scale to remove the gases formed by the action.

Mr. Cook concluded by offering to answer any questions that the men might have. Several were asked, and among other things the Edison batteries were discussed. It seems that the latter is a great advance in the concentration of a large amount of power in small space and weight, but that the efficiency is much less and the necessity for attention, renewing, etc., much greater.

Mr. Morse, vice-president of the Simplex Company, was the second speaker of the evening and gave an interesting talk on the manufacture of electric wires. Copper wires after having been rolled is passed through an acid solution in order to clean it, and is then tinned. The rubber which serves as the insulator appears on the market in the shape of balls. It is treated by various processes before being placed in the cleaning vat, where after a period of time varying from two to four days it is mixed with sulphur, chalk and other chemicals to form the compound which is applied to the wire.

A specially constructed machine serves to press the rubber on the wire and the resulting insulated wire comes out into a pan and is covered by chalk. The rubber is then vulcanized in order to make it resistible to the weather. The telephone wires and those which are insulated by cotton thread are wrapped on special spool machines. Wax is then melted on the outside in order to make it impervious to the weather. Mr. Morse closed his lecture with an explanation of a table illustrating the various resistances of the different insulations.

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OPPOSITE YOUNG'S BOOK

Guess I'll have to see "Good Old Burke the Tailor" pretty soon.

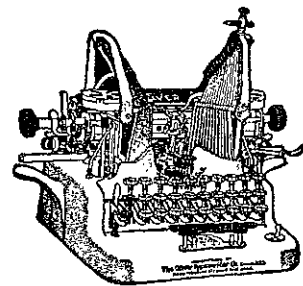
That big brother of mine told me to be sure to call on him at 18 School St., or to see Tom Hayes at 843 Washington St., as soon as I landed in Boston, and the bunch here tell me that was good dope.

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KOMMERS' DINNER TO COME SATURDAY NIGHT

Members of Former Shows to Be There in Costume—Choice of Book Also Announced.

Preparations for the Kommers' dinner to be held in the Union dining room on Saturday night of this week are going along rapidly, and present indications point to a record crowd and the best time ever known at the Show dinner. Several members of the Institute Faculty and of the Board of Alumni Advisers of the Show will be present to speak, and a number of old Show men will be in costume to lend to the occasion a touch of the reality of the Show.

At the time of General Manager Weeks' recent trip to New York, Coach Sanger signified his intention of being present at the dinner and speaking to the men concerning the amateur theatrical work at other colleges as it has come under his observation.

An innovation in the shape of student make-up men is to be introduced this year as a preliminary tryout, candidates will be given the assignment of making up the men who are to appear in costume at the Kommers' dinner. All men who desire to try their hand at this work will report at the Show office, Room B, the Union, at 4.10 P. M., today, and see Stage Manager Fiske as to the details.

Lyrics for the Show will be decided upon by Coach Sanger while he is in Boston next Saturday. At 3 o'clock that afternoon all lyrics must be in so that he can at once begin his selection. All men desiring copies of the titles of the songs to be written can obtain them at the Show office any afternoon this week.

CROSS-COUNTRY TRIALS.

Freshmen Chosen to Represent Tech in Intercollegiate Meet.

In the trials held yesterday afternoon to pick the team to represent Tech at Andover in the annual Freshman intercollegiate cross-country championships, the following men were chosen: G. P. Allen, H. S. Benson, D. F. Callahan, C. F. Getchell, C. T. Guething, J. H. Murdough and R. H. White. It has been definitely decided to let the Freshmen this year compete. Tech has never been represented before in this annual meet, but there was such good material in the class it was thought worth while to send a team.

Benson, who finished sixth in the N. E. I. C. A. A. run, is looked upon as the individual winner at Andover on Friday. Guething and White should finish well up among the leaders. The remainder of the team is comparatively unknown, and it is the order in which these men will finish that will decide Technology's standing.

CROSS-COUNTRY.

(Continued from Page 1, Col. 3.)

come familiar with it. The race is scheduled for Saturday afternoon.

Every one is urged to come to the Trinity Place Station at 7.35 o'clock this evening to cheer the team off, as they have worked hard and should be shown that the students are back of them in the hard race they are to run. Those who intend to attend the meeting of the Chemical Society are especially requested to go to the station before they go to the meeting, as it is only a step from the Union. The official cheer leader, Mr. Glidden, will be present, and probably also Mattson, the Senior Class President to lead the cheering, and they want to see a large crowd.

FRESHMAN BALLOT COMMITTEE MEETS

List of Nominations Filled Out to Required Number at Meeting Yesterday Noon.

The Ballot Committee of the Class of 1916 met in Rogers yesterday noon to look over the nomination papers which were handed in last Saturday. It was found that there were not sufficient nominations, so the committee chose enough men to complete the list. This was done as prescribed by the constitution, which says that there must be at least three men nominated for each office, and in case there are not, the list must be completed by the committee in charge of the ballots.

The men who were nominated for the presidency are C. T. Guething, W. B. Maier and K. M. Sully; for the vice-presidency, R. R. Lesmond, P. C. Norris and A. L. Bickford; for the office of secretary, N. McRae, C. S. Reed and W. Adams; for the office of treasurer, Wm. Shakespeare, Charles Wooley and P. F. Callahan; for the Executive Committee, J. C. Hyde, H. M. Warren and R. E. Merritt; for the Institute Committee, Wm. L. Allen, E. H. Clarkson, T. C. Jewett and L. Besly, and for the Athletic Association C. H. Leeper, George Roper, D. P. Webster, P. H. Buxton, Lucius T. Hill, Paul Duff and Albert Lieber. Two men are to be elected for each of the three committees.

Chairman Lucas of the Ballot Committee announces that the ballots will be out either next Monday or Tuesday.

MINING ENGINEERS.

(Continued from Page 1, Col. 4.) the backs of negroes, who were so lazy that they barely earned their 70 cents a day.

The climate in this region seemed to him to be quite healthful and like that which exists here in June. There was no rain from January to June. The country is infested with such animals as mountain lions, wild cats, monkeys, parrots and many other species of birds. The worst thing were the snakes, for often a man was bitten and cures were but seldom effected. The mosquitoes were also thick and malaria was very prevalent. A Tech graduate of the Class of 1911 was taken ill with malaria down there, but fortunately recovered.

Some idea of the difficulties encountered may be understood by considering the time it took to make the survey. One party needed five and a half months to get ten miles; another the same length of time to get thirty miles, and a third two months to get seven miles.

The next speaker was Mr. Taggart, recently from Yale, who is now doing research work in ore dressing at the Institute. He gave a very interesting talk on South America, especially the region around Bolivia, describing the various routes by which this country is reached from America. He described at length the various copper, gold and sulphur mines, and the deposits of iodine. He also spoke interestingly of the geology of the country, and gave several theories of his own to explain the peculiar formations.

CHESS CLUB MEETING.

Arrangements to Be Made in Union For Tournament.

The Chess Club has decided to arrange for a tournament among the chess devotees of the Institute. A meeting will be held tomorrow at 4.10 o'clock, in the Union, for the purpose of signing up all students interested in the game. The winners of the tournament will constitute the chess team of the Institute. Any one who would like to try out for the team is invited to attend the meeting tomorrow.

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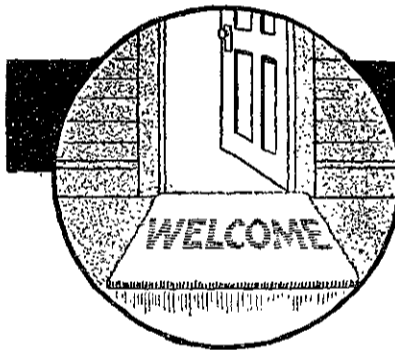
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FACULTY NOTICE.

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.

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.

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