

THE TECH

VOL. XXX. NO. 37

BOSTON, MASS., THURSDAY, NOVEMBER 17, 1910

PRICE TWO CENTS

FRESHMAN DINNER A GRAND SUCCESS

Attendance Small But Much Enthusiasm at Last Night's Gathering.

Last night eighty Freshmen attended one of the best chicken dinners served at the Union for many a day. While quite an informal affair in every way, and not intended as a class banquet, many remarks were heard after the dinner concerning the excellence of the menu. The speeches were enjoyed very thoroughly and were heartily applauded.

Dean Burton was the first speaker. After some good stories he told the men of the importance of concentration as a habit. It is one of the most valuable habits, the Dean said, which the student at Technology can cultivate. The method of instruction here is planned to develop this faculty in the students, and should be the greatest help the new man has to attain this valuable power. The Dean pointed out that too much help from older men is also sometimes the cause of a mistaken idea of the student's standing. Only by working out each problem unaided can the student form a correct idea of his powers.

The second speaker was Dr. Talbot. In introducing Dr. Talbot, President Krueger expressed the sympathy of the class over Dr. Talbot's recent automobile accident. Dr. Talbot brought out some very hearty laughs with his collection of stories. Afterward, in a more serious vein, he told of the sacrifices which students have made and are making to enjoy the opportunity of attending the Institute. It is a very rare opportunity, said Dr. Talbot, and one which the student hardly appreciates to the fullest extent until he has left the school.

Mr. Blackstein was detained and arrived somewhat late, but was given an ovation when he appeared in the room. As an after-dinner speaker, Mr. Blackstein's reputation among 1914 men is secure since the dinner last night. The tables were in a state of uproar from the time he arose until he sat down.

(Continued on Page 3.)

CROSS-COUNTRY RACE NEXT SATURDAY

Annual Event Is Opportunity For New Men—Entries Close Friday.

Next Saturday comes the annual Fall Handicap Cross-Country race, held over the eight-mile handicap course in West Roxbury. The entries close Friday noon and will be received up to that time by H. S. Benson, 1912, or may be entered in the book at the Union.

This race is the only interclass cross-country run of the Fall, and always proves to be an interesting contest. Liberal handicaps are allowed and new men are given every chance. Three beautiful cups are awarded, one for first prize, one for second prize, and one for the best actual time. Besides this, the men who make the four fastest times are given a cup. The three cups are now on exhibition in the Technique case in the Union. They are the gifts of E. H. Lorenz, 1905; F. H. Hunter, 1902; A. R. Hunter, 1908, and R. Ellis, 1909.

Every man who wants to do anything in cross-country work should enter this race. The chances are especially good for new men, and the results are interesting as they give some line on the Freshmen and Sophomores by which to forecast the results of their race next April. The men leave Back Bay Station on the 2.09 train.

PRES. MACLAURIN TALKS ABOUT EDUCATION

Addresses Meeting of National Conference on Vocational Guidance.

TOO MUCH WASTE,

Declares the Speaker—No Longer Train Young People On Broad Lines.

SPECIAL BY TECHNOLOGY PRESS ASSOCIATION.

"What are we going to do with boys?" was the question asked by President Richard Cockburn MacLaurin of the Massachusetts Institute of Technology to 800 educators, teachers, scientists and business men, including representatives from the Boston Chamber of Commerce, at the final meeting of the National Conference on Vocational Guidance, held last evening in Huntington Hall, Rogers Building. The conference given under the auspices of the Boston Vocation Bureau and the Boston Chamber of Commerce was presided over by Bernard J. Rothwell. The other speakers of the evening were Dr. David Sneddan, Massachusetts Commissioner of Education, and Professor Frank M. Leavitt, delegate from the University of Chicago.

"We are no longer content to train young people on what we call 'broad lines,'" continued President MacLaurin, "without any regard or with little regard to their future life work. Everywhere the duty of preparing youth for life is clearly recognized; and so the disparagement of vocational training is a passing thing."

It was Doctor MacLaurin's idea that young people today select their profession from a deep interest therein rather than worldly gain. "Bread and butter are not despised by sensible people anywhere; and it is becoming clearly recognized that the vocational motive may be just as lofty as any other which moves men to action; that the reasons which impel a man to become a great doctor or a great engineer may be just as noble as those that impel him to be a poet or an artist. And so our efforts in education today is directed towards the wise use of vocational motive everywhere.

"At this Institute of Technology it has long been recognized as one of the important functions of the profession and instructors to afford such guidance. At the Institute of Technology the problem is in some respects relatively simple. We have in the first place to deal with picked students, and our job is to watch these students closely for a considerable period of time and so to form a fairly accurate measure of their capacity and interest before guiding them in any particular direction.

"The lesson we should learn from a visit to Spain is its persistence as a people. This country was over fifteen hundred years old when it sent a man to discover a country that we were to settle three hundred years later. Spain," declared the speaker, "has been dying longer than we have lived."

The Noise Committee next presented an illustrated lecture on a "Trip to Hades." In this the different members of the society were burlesqued, and much amusement was created.

Refreshments were served throughout the evening.

At the business meeting new members were elected, and some changes made in the constitution. The idea of a joint professional society dinner was warmly commended.

(Continued on Page 3.)

BIOLOGICAL SMOKER ENJOYABLE AFFAIR

Vice-Pres. Humphrey of Technology Club Talks of Trip to Spain.

BUSINESS MEETING HELD.

Joint Professional Society Dinner Is Warmly Commended.

"Spain," said Vice-President Seth K. Humphrey of the Technology Club, "has had a long and tragic career, and we must connect this with the things we see when we visit that country."

"The first invasion of Spain was made by the Phoenicians about 1300 B. C. The Romans conquered the country about the time of Christ, and the Roman civilization and customs were thoroughly absorbed. About 400 A. D. the Vandals and Visigoths got control of Spain, and these in turn were driven out by the Saracens in 700 A. D. It was this last people who named the rock of Gibraltar. Southern Spain became, under their regime, really a country of the Levant. About 1200, the Moors were driven into Granada, and in 1500 they were forced back into Africa.

The first town visited by Mr. Humphrey was Ronda, which is a typical poverty-stricken town. It is situated on a cliff three hundred feet high. Among the views shown were the bull ring, an old arch and the old Roman wall.

The trip to Seville was made by train. The railway carriages are mounted on four wheels, and the speed reached is never over twenty-five miles an hour.

Seville is a town of two hundred thousand people, situated on a flat plain near the western coast. A great deal of Moorish architecture is seen in the older portion of the town, and here the houses open not into the street, but into courts. The cathedral here is next to St. Peter's—the largest church in the world. It covers three acres and is more imposing on the inside than St. Peter's itself. Here also is the famous Alcazar—the palace of the old Moorish kings.

"Cordova is a miserable town, and it is hard to believe that it was once the capital of Spain. The most interesting sight here is the old Mosque with its sea of columns and arches. The Christians have built a temple in the centre of the old building.

"Madrid is a newer town, comparing favorably with any of the capitals of Europe. The interesting sights pointed out were the bull ring, the Palace of the Sun and the Royal Palace.

"Near Madrid is the noted escorial of Philip II. It consists of a church, a monastery and a palace.

"Granada was the last stronghold of the Moors. Here is situated the Alhambra with its graceful arches, the Courts of Lions and the Courts of Myrtles.

"The lesson we should learn from a visit to Spain is its persistence as a people. This country was over fifteen hundred years old when it sent a man to discover a country that we were to settle three hundred years later. Spain," declared the speaker, "has been dying longer than we have lived."

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COLD STORAGE PLANT VISITED BY STUDENTS

Mechanical Engineers Learn How Low Temperatures Are Maintained.

LARGE PUMPS USED

To Send Brine Through Length of Pipe at High Speed.

Yesterday afternoon about thirty men from the Mechanical Engineering Department, accompanied by Professor Miller, enjoyed a visit to the Quincy Market Cold Storage Company's plants. The party was met by Mr. H. W. Tinker of the company, and shown about by him.

The first place to be visited was the house which is used exclusively for the storage of butter, eggs in the crate and apples. Butter is kept at a temperature of 10 degrees above zero. It is received by the company about June, and is held until the following May; 280,000 tubs, weighing 55 pounds each, have been stored at one time.

Eggs are kept at about 20.5 degrees F., and also require a carefully adjusted humidity. The company's high water mark in this fruit is 370,000 cases of 30 dozen each. Apples are kept at 32 degrees, and as much trouble is experienced in keeping them damp as in keeping the eggs dry. To this end the floors in the apple rooms are sprinkled every day. Apples come in as they are picked in the Fall and are out by August 1st; 35,000 barrels and 45,000 boxes were stored in the rooms visited.

The method of cooling this portion of the plant was then shown. With the exception of the butter room, no brine pipes were visible, they being closely strung in a room by themselves, through which the air is kept circulating. After being dried by passing over chloride of calcium, this cooled air is sent in at the ends of the cooling rooms, and then out at the middle. Air is renewed each week.

The power house was the next place visited. Here were two great compressors, which were compressing the ammonia gas. Next were seen the expansion coils wherein the brine is cooled by expansion of the liquid ammonia. These coils are built and look very much like horizontal multi-tubular boilers placed on end. From the expansion coils the gas is carried through cooling coils and then sent back to the compressor.

(Continued on Page 2.)

CALENDAR.

Thursday.

4.00 P. M.—Banjo Quintette Trials—Union.

4.00—Mandolin Club Rehearsal—Union.

4.00—Glee Club Rehearsal—Union.

4.00—Freshman Cross-Country Practice—Gym.

7.45—Chemical Society Talk—Union.

1.45 P. M.—Electrical Society Excursion to L Street Station of the Edison Illuminating Company. Leave Lowell Building.

4.15 P. M.—Institute Committee Meeting.

4.00 P. M.—Sophomore Cross-Country Practice—Gym.

4.00 P. M.—Gym Team Practice—Gym.

4.00 P. M.—1914 Cross-Country Practice—Gym.

4.15 P. M.—Orchestra Rehearsal—Union.

5.00 P. M.—Basketball Practice—Gym.

4.00 P. M.—Sophomore Cross-Country Practice—Gym.

THE TECH

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THURSDAY, NOVEMBER 17, 1910.

E. SOCIETY EXCURSION TO L ST. STATION TODAY

Members Will Inspect Edison Company's Plant—Typical Central Station.

The fourth excursion of the Electrical Engineering Society will be held this afternoon. The party will leave the Lowell Building at 1.45 P. M. for the L Street Station of the Edison Electric Illuminating Company, which will be inspected with the aid of experienced guides which will be furnished by the company. It is expected that one or more of the professors of the department will accompany the party. This is a representation of the typical central station of the latest type, and it is hoped that a large number of men will take advantage of this opportunity. Last year a very large party took this trip and found it both interesting and instructive. To accommodate those who are unable to go on Thursday, another trip will be held Monday afternoon at the same time, provided 15 men sign up on the bulletin in Lowell their intentions of taking the trip at that time.

M. A. H. S. CLUB HOLDS FIRST MEETING.

At the first meeting of the Mechanic Arts High School Club of Technology of the year, yesterday, Maxwell, 1912, president of the club, greeted the new members of the Freshman class with a talk of welcome and an earnest plea for closer ties between the members of the club, so that it would be able to take an active part in the school's affairs, as it has done heretofore. After the pressing business details were disposed of nominations were offered for a Freshman member of the club for the Executive Committee. As a result of this election Mr. Walter J. Hauser, one of the younger first year pupils, was elected a member of the Executive Committee. At the same time Mr. Howard of the Civil Engineering teaching staff was unanimously accepted as a tentative advisory member of the committee. Plans were made to have a social meeting of the club at the Tech Union on Friday, November 25, at 7.15 P. M. After discussing other timely plans, the spirit of which augurs well for this enterprising and energetic organization, the meeting was adjourned.

Continued from Page 1)

A large steam pump sends the brine at a temperature of 10 degrees, and at the rate of 20,000 gallons per minute, through three and one-half miles of ten-inch mains, supplying the market district, from whence it returns at 15 degrees. It was interesting to note that whereas this pump took up a floor space of 450 square feet, that another unit consisting of a turbine pump, driven by an induction motor, the whole taking a space of 50 square feet, was capable of the same amount of work. Moreover, unofficial and approximate figures gave the cost of the latter as 9 cents per H.P. hour, as against 12 cents for the former.

Exhaust steam is used to drive low pressure steam turbines which in turn drive alternating current generators. Steam is generated by a battery of five Scotch boilers, the boiler room suggesting the hold of a ship rather than a stationary plant.

The party next visited some of the other storage houses, where meat and poultry were seen. The house known as the "fish freezer" attracted a great deal of attention. Here fish are first washed, then packed in pans and frozen. After this process, which is completed in from 24 to 36 hours, the pans are dipped in water, which separates the fish from them and at the same time forms a glaze of ice about the frozen mass, thus protecting it from the air. Should the fish be kept over three months they are re-glazed.

These colder rooms are cooled by brine which leaves the power house at a temperature of 12 degrees and returns at 10 degrees. The frost, which is several inches thick on the walls and pipes, is cleaned off at least once a week, otherwise it would get so thick that the part on the outside would be so far from the cold pipe that it would melt.

This plant is the largest in the world, cooling in all ten million cubic feet. They supply cold to most of the dealers in the market district, ice for refrigerating purposes being unknown. No order is too small or too large, as they handle anything from thousands of pieces down to a pair of birds or half a crate of eggs.

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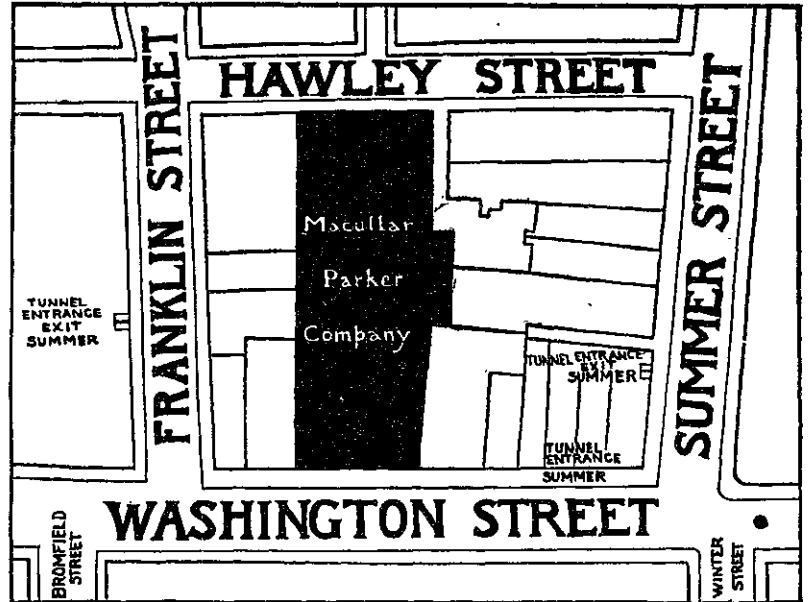
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(Continued from Page 1.)

One of the touching things of which Mr. Blackstein told was the case of a young Swede who was very much in love with a certain young lady who could speak only Italian. Since the gentleman from Sweden could speak only Swedish, his overtures were made with some difficulty. Calling on the young lady one evening, and finding all other plans vain, he took from his pocket a box of Swedish matches. With great emotion he pointed out the words "Obgloob, jog-jog scrrrmwtholmsen," whereupon the lady came to his arms.

After thanking the speakers, President Krueger made a little speech on his own account. Mr. Krueger spoke of the opportunity offered by the class organization for gaining valuable experience, as well as for meeting a large number of the class in a personal way. Friendships formed among classmates, he said, are the most lasting friendships. All men in a class have the same interests and the same troubles, too, he added, so this is only a natural consequence. He urged the members of 1914 to take part individually in all the activities and thus make the class record a thing to be proud of forever.

A plan was outlined, the purpose of which is to bind the class more closely together. It is the selection of men from each section as a sort of representative body. In this manner it is thought that all members of the class can be reached more readily at short notice and on all matters of importance.

The dinner was in every way, except the attendance, a great success, and several similar dinners will probably be held during the winter.

NOTICE

COMPETITION for class histories closes January 1st. Get busy and win an autographed 1912 Technique de Luxe by writing the best history of your class. (tf)

1914.

There is room for a Freshman on the circulation department of The Tech. A good chance to get on the ground floor of the business department. See A. T. Gibson, Tech Office, today at noon. Get busy!

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

Medical Adviser.

Dr. Franklin W. White, Medical Adviser to the Institute, may be consulted by students, without charge, on Monday and Thursday, from 4 to 5 P. M., in Room 21, Pierce. Exemption from the payment of a fee is limited to these hours and this place.

Dr. White's private office is at No. 416 Marlborough street, and his office hours are from 8 to 9 A. M., and from 1.30 to 3 P. M., daily.

(1) **WALTER HUMPHREYS,** Registrar.

NOTICES.

FIRST YEAR.

Military Science—Course B.

The hour for Course B in Military Science will be Wednesday, 4-5, in Room 22, Rogers.

WALTER HUMPHREYS, Registrar.

(Continued from page 1)

their suggestions, in obtaining statistics as to the needs of the various vocations, what callings are overcrowded and what are comparatively empty. In these days men who are to amount to anything have usually to be workers in some field—intellectual or manual. If they cannot get happiness from their work, they are almost inevitably doomed to misery. It is indeed surprising that misery is not greater than it is when we consider the haphazard methods of choosings, just as it is surprising that there are not more unhappy marriages.

"There is waste everywhere; in processes of manufacture, due to unscientific methods; waste in distribution, due to like causes; but perhaps above all, waste due to misdirected human efforts, where men are working with all their energy in the wrong field. If we can do anything to diminish such waste, it is a national duty to take the matter seriously and do everything that we can."

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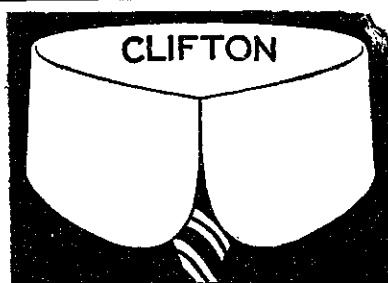
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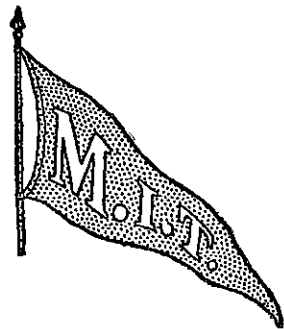
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H. S. STORY, Curator.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

November 7, 1910.

Attention is called to the following rule of the Faculty:

"All marks of D, except in Physical Laboratory, incurred during the first term must be removed not later than the end of the following March; those incurred in the second term must be removed not later than the end of the following November; except that extension of time may be granted by the Faculty in the case of subjects which from the character of the work can be pursued to better advantage in the term for which the record is given. All deficiencies in Physical Laboratory work must be removed at a date to be determined by the instructor, which date shall not be later than the end of the following November.

In case a mark of D is not removed at the date thus determined, 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."

Petitions for extension of time must be presented before December 1.

A. L. MERRILL,

(3) Secretary of the Faculty.

Two volumes of Technique for sale, 1894 and 1895; 1895 is dedicated by President Walker and has his picture as a frontispiece. Apply at Room 36, Walker.

CANDIDATES FOR GRADUATION.

November 7, 1910.

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, 1911.

A. L. MERRILL,

Secretary of the Faculty.

ASSISTANT MANAGERS OF TECH SHOW.

Competition for assistants in Tech Show, 1911, has begun. There are three assistants to be chosen, preferably one Sophomore and two Freshmen. Manager Lenaerts will be in the Show Office, Room B, daily, from 1 to 2 o'clock, to meet all candidates.

SECOND YEAR.

November 8, 1910.

All students having deficiencies in Structural and Field Geology (870) are to report to Mr. Allan before November 14th.

WALTER HUMPHREYS, Registrar.

A COLLEGE DANCE will be given on November 21, at Temple Israel, Commonwealth Avenue, for Jewish college students whose homes are not in Boston. Invitations will be sent to all such who will leave their names at the office of the President's Assistant, 10 Rogers, not later than Saturday, November 12. (3, 4, 5, 6, 7)

1914.

The Gymnasium classes in Physical Training begin this week, according to the Tabular View. The attendance at the first two classes was very poor, and a large number of men have one absence against them already. There are only four cuts allowed during the year, and each man must report at his classes in order to obtain a clear record in that subject.

Will the Secretaries of all the organizations kindly hand a full list of their officers to the Societies' Editor of The Tech as soon as possible?

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

November 15, 1910.

A proof list of the students for the current Catalogue is posted at the entrance of Rogers, Walker, Engineering A, Engineering B, Pierce, Engineering C and the Lowell Buildings.

Corrections should be handed in to the Registrar's office not later than Friday, November 18.

WALTER HUMPHREYS, Registrar.



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