

THE TECH

VOL. XXXII. NO. 84

BOSTON, MASS., TUESDAY, FEBRUARY 11, 1913

PRICE TWO CENTS

ANNUAL HOCKEY TRIP SUCCESSFUL FOR TECH

Win Games From Both Syracuse and West Point—Lose But One Game.

Although but eight men took the annual trip with the hockey team last Wednesday to compete with other eastern colleges, the trip was very successful, for Tech won two out of the three games played.

On Wednesday they met Syracuse, one of the fastest teams in the East, and swamped them with a score of 8 to 0. Tech put up a wonderful offensive game and completely bewildered her opponents. It was only the phenomenal stopping of Milligan, the Syracuse guard, that kept the score from being still greater. Foote, the Tech Freshman, was the individual star of the game, shooting four of the eight goals. MacLeod caged two, and Eichorn and Stucklen got one each to their credit.

The next day Tech met the Syracuse Hockey Club and was defeated, 6 to 2. The playing was even in the first half, but in the second the home team commenced rough play. Before ten minutes of the second half had elapsed Hurlburt was knocked out and the game ended in a free-for-all fight, in which the spectators took part.

On Saturday Tech met the Army seven at West Point and defeated them to the score of 5 to 0. At no stage of the game did the Cadets have a chance to score. Hurlburt scored for the visitors and got three goals. Stucklen and Foote were each responsible for one.

A game was scheduled with Cornell for Friday but there was not enough ice to play on.

LAND TITLE FILED.

Institute to Determine Rights to Boylston Street Property.

Early this week the Institute will file a new petition with the Land Court to determine for all time the exact rights of property owners and others to the block on which now stand Rogers and Walker Buildings and the Museum of Natural History. There is no doubt that the land belongs to the Institute but it desires the Land Court to pass upon and determine the nature, validity and extent of the easements which exist over the property. This action has caused a postponement of the original petition for registration of the title which would have come up for a hearing next week.

The Technology land title case is the most interesting that has been before the courts of the State for many years, and once some features of it were carried to the Supreme Court and a ruling handed down. Now the Institute seeks to determine how many of the surrounding lots are entitled to benefit as well as to be correctly informed of its own rights.

CANNEL COAL.

Cannel coal was mined to the extent of 170,010 tons in 1911, according to the United States Geological Survey, Kentucky producing 90,275 tons and Pennsylvania about 40,000 tons.

ESTIMATES COST OF OPERATING VEHICLES

Researches at the Institute Prove Electric Drive Cheapest.

Under the supervision of Dr. Harold Pender and management of H. F. Thompson, the Institute has made a study of the cost of operating vehicles. During the past year more than one hundred thousand observations have been taken on the operation of trucks. These have been taken by means of special devices and have been made in all the large cities of the country.

From these observations statements and reports have been drawn up on the cost of operating the different vehicles. In these reports the expenses have been placed under the following heads: (1) Electricity, gasoline or feed; (2) maintenance, including tires or shoeing, repairs, battery, veterinary lubricants; (3) garage or stable, driver and helper; (4) overhead charges, including depreciation, interest and insurance. The average mileage cost for the five-ton electric truck is about nine cents. The repairs expense of the large electric truck is about the same as for the small electric, but the repair expense of the gasoline truck depends upon the size. The garage expenses range from \$13 a year to \$459 which average about \$200 a year. From these expenses it has been found that the electric truck is cheaper to operate than either the gasoline truck, or to maintain the horse.

For a complete report, illustrated with diagrams, see the Scientific American, January 18.

N. E. I. A. A. MEETING.

New Officers Elected—Future Plans Discussed.

The annual meeting of the New England Intercollegiate Athletic Association was held Saturday at the Hotel Lenox. President H. S. Benson, of M. I. T., presided, and the following officers were elected: President, R. K. Stone, of Dartmouth; vice-presidents, J. M. White, of M. I. T.; S. J. Patten, of Brown; secretary, E. E. Pierce, W. P. I.

The petition of the Massachusetts Agricultural College for admission was acted upon favorably, making the total membership in the association include sixteen colleges. The meeting made the Advisory Committee, of which Major Briggs, of M. I. T., is a member, a special committee to consider the desirability of holding a Relay Carnival, possibly in connection with the Spring meet.

SOPH BASKETBALL.

The Sophomore basketball team will begin practice this afternoon at 5.15. As it is of great importance that the team get back into trim at once for the hard games which are soon to be played, it is to be hoped that as many as possible will report. New men are reminded that their attendance will help.

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ARCHITECTURAL TRIP WAS GREAT SUCCESS

Party Visited Many Shipyards and Dry Docks During Eight Days.

The Naval Architectural trip, which had been looked forward to for so many weeks, became at last a reality, and is now but a pleasant memory to the Architectural men who made the trip. The party, which consisted of Professor H. A. Everett and ten Course 13 men, left Boston Thursday evening at 6 o'clock, over the Fall River line. They arrived in New York the next morning, and after having breakfast, started immediately for the Navy Yard. The men were met here by Lieutenant Hanson of the Naval Academy, a former Institute man. He showed them through the yard and all the points of interest, including the remains of the turbine casing of the engine on the torpedo boat destroyer Walke which blew up some time ago with very fatal results.

The party arrived in Philadelphia Friday night, and the next morning took the trolley and ferry to the plant of the N. Y. Shipbuilding Company at Camden, N. J. The men here had the good fortune to be on hand for the launching of a ship, the Standard Oil Company's steamer "Vesta." From here the party took the trolley to the Wm. Cramps & Sons' shipbuilding plant, starting early the next morning for Washington.

Sunday afternoon was spent here in the capital, the different members of the party doing very much as they pleased. In the evening the whole party went to the Congressional Library and saw this institution by night. The next morning they went directly to the Washington Navy (Continued on Page 2.)

T. C. A. TALK.

Mr. H. W. Gibson, Popular Y. M. C. A. Man, the First Speaker.

The T. C. A. begins the semester by having as its first speaker one of the men suggested by students. This is Mr. H. W. Gibson, State Secretary for Boys, of the Y. M. C. A. His topic is "Hodge-Podge."

Mr. Gibson is the author of a book called "Camping for Boys" and of other works of similar nature. He is always an interesting speaker and is in great demand. He has a pleasing personality, which makes him popular wherever he goes.

As executive in charge of boys' work in the Associations of Massachusetts and Rhode Island, Mr. Gibson probably knows and is known to more boys and young men than any other man in religious work. Every Technology man who has ever belonged to a boys' department in a Y. M. C. A. anywhere in the two States has at some time or other heard or met "Gibbie," as he is called. Many men know Mr. Gibson through their experience as boys at Camp Becket, in the Berkshires, of which he is superintendent, or at Camp Durrell, on the Maine coast, which is conducted under his direction.

The T. C. A. expects that all these men and many others will turn out Thursday, at 1.30, in the Union, to give Mr. Gibson a warm welcome.

TECH UNSUCCESSFUL AT ANNUAL B. A. A. GAMES

Place Only in Sixty-Yard Dash—Lose Both Relay Races.

Although several records were broken, Technology did not show up well in the annual B. A. A. games held in Mechanics' Hall. The relay races were a decided disappointment, but the fault was more one of luck than actual running.

The one redeeming feature of the games was the showing made by Tech in the sixty-yard dash. When the men lined up for the final there were two Tech men Wilson and Wilkins, and two men from New York. Stephenson of the Trinity Club of Brooklyn won; Wilkins was second, defeating Aivah T. Meyer of the Irish-Americans, who won second place at the Olympic games last summer in the one hundred metres dash.

In the mile handicap, won by Taber, Palmer of Technology was just beat out of third place by Atwater of Tufts. The only other Tech man to show form was Huff, who won his heat in the hurdles, but was hopelessly outclassed in the finals.

In the 1500-yard relay, Curtis was never set when the race started, and lost 15 yards. Munch, the second man, fell at exactly the same spot as last year, and after that the race was a farce. The longer relay race was three-cornered, between Harvard, Dartmouth and Tech. Dartmouth won easily, followed by Harvard, with Tech a close third.

POSTER COMPETITION.

All Posters Must Be Handed in By 6 O'clock Tonight.

The poster competition of the "Tech Show," which has been open for the last seven weeks, will close tonight. The posters are to be handed in at the Show office between 4 and 5 P. M., where there will be some one to receive them. As the posters must be judged and the contract with the engraver made in the course of a week, it is necessary that the posters be in today. If any man has not fully completed his work he should report at the office and see what arrangement he can make. The posters will be judged by men outside the Institute and will be considered from three points of view. First, they will be considered by a newspaper man, who will judge their advertising qualities. After this they will be examined by an artist with regard to their artistic value, and lastly by an engraver, to determine the success with which they may be reproduced. Because of the zeal with which the men have taken in the work, some very good posters are expected.

CALENDAR.

Tuesday, February 11, 1913.
5.00—Lowell Institute—"Darwinism and Design."
Wednesday, February 12, 1913.
6.00—E. E. Society Meeting—Union.
Thursday, February 13, 1913.
6.00—Catholic Club Dinner—Union.
Friday, February 14, 1913.
5.00—Lowell Institute, "The Evidences for Fitness"—Huntington Hall.
8.00—Wrestling Meet, Tech vs. Harvard—Gym.

SHOW POSTERS DUE TODAY 4-6 P. M.

THE TECH

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TUESDAY, FEBRUARY 11, 1913

A fresh start is a wonderful thing. With past experiences as a guide and inspiration and the great opportunities which are ever increasing, the advent of a new term is like living a little life all in a short four months with advantages greatly increased. It is for us to say whether it shall be a successful one, and as we look forward it is easy to say that nothing but the most faithful and regular attendance on duties will mark the entire period. Indeed an excellent parallel is seen in the life of a student and that of an old man who perhaps has lived a life of missed opportunity, or else has pushed forward with keen insight and endeavor until he stands more powerful than at any other period in his life. Many of us are now strong and powerful old men, with simply another opportunity for advancement, and many are weak and tottering. We weak ones, however, have the advantage of the real old man in that we can start again and make good every weakness that we have developed, and at the same with the same opportunities that the first individual has.

THE TECH wishes every one the best of success throughout the coming term.

EPISCOPALIANS MEET.

Brotherhood of St. Andrew Continues Discussions.

This evening, at 7.15, the Brotherhood of St. Andrew will hold the first of a series of weekly discussions. The meetings will be held at Trinity House, 22 St. James avenue. The Rev. Mr. Van Eiten, assistant rector of Trinity Church, will lead the discussions. All Episcopalians are cordially invited to attend the meetings. The discussions held last term were voted to be a success, and it is promised that the coming talks will be of equal interest. It is hoped that a large number of men will turn out, in order that the first meeting may be successful.

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E. E. SOCIETY TO MEET WEDNESDAY

Wm. McCloud, a Well Known New York Engineer, to Speak.

Mr. William McCloud, a prominent engineer of New York, will speak before the Electrical Engineering Society at an important meeting scheduled to take place at the Union at 7.45 P. M., Wednesday February 12th. As it has been customary not to limit the attendance at meetings of this kind to members of the society, all Tech men are invited, and it is expected that many will be present to hear the speaker.

Mr. McCloud is at present chief engineer of the Public Service Commission of the Second New York District. He was formerly associated with the New York Central lines. In anticipation of the importance of his talk before the Tech students, several Harvard engineers have expressed their intention of being present at the meeting.

The Electrical Engineering Society has recently announced that J. A. Tennant has been elected to the office of vice-president. It is further announced that an important business meeting will be held this afternoon at 2.15, and it is urged that all officers and others connected with the society be present.

NAVAL ARCHITECTS' TRIP.

(Continued from Page 1.)

Yard. This was perhaps the most interesting part of the trip. One building, about five hundred feet long, was devoted entirely to the testing out of new ship models. There is a large tank running the entire length of the building, above which runs a car very similar to a traveling crane. To this car is attached, by means of an ingenious towing device, an exact model of the ship to be tested. An attached apparatus automatically records the speed of the model under varying tensions of the towing device. From these statistics can be figured the speed which would be attained by the big boat itself. The government is here likewise experimenting on the suction effect of a ship in mid-stream upon other ships tied up at imaginary wharves. This is done by taking moving pictures of the motion of floats whose state of rest has been disturbed by drawing some mass through the water. These pictures are then thrown on a screen and the motions studied at leisure. The party was also shown many models of present-day warships, many of which are said to have cost many thousands of dollars, although they are but about six feet in length.

Tuesday morning the Architecturals left via Baltimore for Sparrow's Point, Md. They were here shown through the plant of the Maryland Steel Company, which builds ships as a side line. They saw the process of steel manufacture according to both the Bessemer and the open hearth processes, from the time the raw ore was placed in the furnaces to the turning out of the complete steel rails.

The party next returned to Baltimore, and caught the steamer for Newport News, where another shipyard was visited. This the Newport News Shipbuilding and Dry Dock Company, is perhaps the largest of its kind on the coast. It does mostly repair work.

At Norfolk the party got the steamer for Boston on Wednesday evening, and arrived here in the city Thursday, about 3.30 o'clock, eight hours late.

JUNIOR PIPES.

There still remain a number of 1914 pipes which have not yet been delivered by the Junior Pipe Committee. A member of this committee will be in the Union this noon, between 1 and 2 o'clock. The pipes have been ready for two weeks and the committee desires that all men who have not yet taken their pipes do so at once, in order that the accounts may be cleaned up.

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HIGH FREQUENCY CURRENTS DISCUSSED

Wireless Expert Gives Talk On New Government Station at Arlington.

The production of high frequency currents and their application to wireless telegraphy was the subject of a talk given by Dr. Reginald Fessenden to the members of the New England Wireless Society at their meeting, which was held in Room 22, Walker Building, on the evening of February 1st. A large audience of wireless men were present to hear this interesting talk by one of the big men in radio-telegraphy, and one who has contributed much towards the present achievement of that science. Dr. Fessenden is connected with the National Submarine Signaling Company and the General Electric Company.

He began by discussing the various methods for producing high frequency currents and their relative merits. With the aid of the stereopticon he described the various kinds of high frequency arcs and compressed air spark gaps which are used by engineers and scientists. He then went on to discuss his remarkable high frequency alternator which he used in working a wireless telephone from Brant Rock, Mass., to Washington, D. C. This alternator produces a current of 50,000 cycles per second, a frequency far above the range of audibility, and one which seems enormous when compared to the 60-cycle currents in general use for lighting and power plants.

Dr. Fessenden also described a form of telephone transmitter which he has devised to carry the large amperage necessary in the operation of a wireless telephone. He concluded his talk by a very interesting description of the remarkable one hundred kilowatt station which has recently been installed at Arlington, Va.

This station is by far the most powerful one in this country, and some idea of its range can be gathered from the fact that it not only works with a station on the Eifel Tower, Paris, and with stations on the Pacific coast, but it has also carried on communication with Honolulu. The steel frame towers which support the aerial are higher than the Washington Monument, and they are pivoted at the base to relieve the strain of the wind. The delicate receiving instruments are installed in an absolutely sound-proof room. A special relay has been designed for opening and closing the transmitting circuit, and, although it carries 100 k. w., it is capable of being operated at a very high speed. Dr. Fessenden spoke of other sundry appliances at this station and showed numerous illustrations of them. At the conclusion a general discussion by the members followed.

The New England Wireless Society is holding some very interesting monthly meetings this winter, and they are having many prominent wireless experts address them. All members of the local society are eligible for membership, and any other Tech men who might be interested in the science of radio-telegraphy. A note left at the Cage for either H. A. Affel, '14, or H. B. Richmond, '14, will bring further particulars.

TECHNIQUE, 1914.

The Technique office has been a scene of great activity for some months. The vacation week was especially marked by a great deal of progress in all departments.

Technique has always occupied a prominent place in the front rank of college annals, and the 1914 Board is doing its best to advance its rank. A step has been taken which will make it a volume whose quality will make it truly representative of Technology wherever it may go.

The work of the art department is nearly all in at the present time, and it is a great credit to the art board and those who have volunteered their services.

INSTRUCTOR LEAVES.

F. Schneider to Take Position With Russell Sage Foundation.

Franz Schneider, Jr., '09, instructor at the Massachusetts Institute of Technology, a young Lawrence man, has resigned his position to accept that of sanitary expert to the Department of Surveys and Exhibits, Russell Sage Foundation. In addition to his work in lecturing and instruction, Mr. Schneider was also the health officer of Wellesley under a co-operative plan whereby the Institute is virtually the authority caring for the technical details of the public health work. The idea of this is to merge the executive and laboratory work of adjoining towns and thus secure the best work, unequaled laboratory facilities and expert management for a small expenditure.

The co-operative work is now on such a scale that Robert N. Hoyt, '09, now health officer at Princeton, N. J., will devote all his time to the Massachusetts work. At Princeton Mr. Hoyt was particularly successful in his work on milk, publishing in the daily papers the bacterial counts of the different dealers who under such a system did not fail to try for a low count.

For the lecture work that has been carried on by Mr. Schneider, Professor W. C. Purdy, Professor of Biology at Geneva College, has been called and will be named assistant in biology.

CATHOLIC CLUB.

First Meeting of Term to Be Addressed by Fr. Cusick.

Wednesday night the Catholic Club will hold its first meeting of the new term, with Rev. Fr. Cusick as speaker. He will continue his talk on "Evolution," bringing forth the arguments that the adherents of the "scholastic" theory of evolution advance in support of their ideas. The officers of the club want every man who is interested in hearing of a theory of evolution that expects to replace the theory of Darwin and of the men who followed in Darwin's footsteps, to come to the meeting, or to eat with the members of the club in the upper room of the Union rather than downstairs.

At the last meeting of the first term Father Cusick said that the Catholic Church and some of the best thinkers on the subject of evolution believe that the idea of one type of animal, gradually changing into another, was wrong and contradictory to the observations made by some anatomists. He said that the idea of chance that Darwin uses to explain the reason for such a change taking place is wholly incapable of holding up the mass of theory which has been founded on the idea, and so it ought to be rejected, and a different fundamental idea substituted for it.

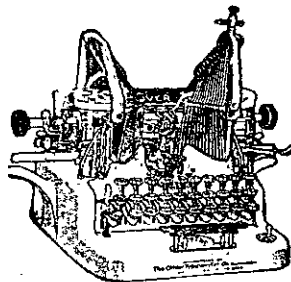
At the talk Wednesday Father Cusick will explain this new fundamental theory and bring out the arguments which seem to favor it.

TECH MEN CONTRIBUTE.

Articles in American Year-Book Written by Graduates.

The American Year-book for 1912 includes contributions of five Institute men: Professors C. E. Locke, W. T. Sedgwick, E. B. Wilson, W. R. Ingalls and Bradley Stoughton. The three professors are so well known around the Institute that they hardly need further mention. W. R. Ingalls '86, and Bradley Stoughton, '96, are both graduates of Course III, and the former is now editor of the Engineering and Mining Journal. This is only another illustration of the prominent places Technology graduates are filling in every profession.

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