

THE TECH

VOL. XXXIV. No. 78.

BOSTON, MASS., WEDNESDAY, JANUARY 6, 1915.

PRICE THREE CENTS

PROFESSOR RILEY TO SPEAK ON AVIATION

Illustrated Lecture To Be Given At Engineer's Club.

This evening at eight o'clock there will be a meeting of the American Society of Mechanical Engineers in the Engineer's Club Hall on Arlington street. The members of the Mechanical Engineering Society of the Institute have been invited to attend.

Joseph C. Riley, Associate Professor of Heat Engineering at Technology will give an informal talk, illustrated with lantern slides on the new types of motors adapted to use in aeroplanes.

Mr. Albert A. Merrill will deliver an address on some experiments recently conducted with a new type of stable biplane and Mr. Greely S. Curtis of the Burgess Company of Marblehead will speak on some developments in aviation during the past year. Both of these lectures will be illustrated.

EXAM ISSUE FRIDAY

Special Section Of The Tech Giving Schedule.

The Tech is to publish a special issue Friday, containing the Mid-year exam schedule. The edition will be out at nine o'clock as usual, and will be on sale at all the regular stands. The paper will sell for five cents cash, and to those subscribers holding coupon books, for one coupon. The coupons, however, will not be recognized if they are already detached from the book, and they must be presented with the book. No issue will be sold if the coupon book is not presented.

The Tech calls attention to the fact that the exam schedule to be published is only provisional and tentative, and that it is not at all improbable that changes in the schedule will eventually be made in the final schedule issued by the Registrar.

TECH SHOW MUSIC

Trials for the Tech Show Music were held Monday and Tuesday afternoons. The final selection will be completed on Friday afternoon. Twenty men have submitted compositions. One of the pieces, a waltz, is to be featured, as it is considered exceptionally good. It is expected that every piece will be ready for the Tech Show Orchestra immediately after the mid-year vacation.

ALUMNI ASSOCIATION BANQUET SATURDAY

Hotel Somerset Chosen For The Annual Event—Prominent Men As Speakers.

Secretary Walter Humphreys of the Alumni Association announces the date of the annual banquet to be



WILLIAM H. TAFT.

Saturday, Jan. 9th; the place, Hotel Somerset, and the hour, seven in the evening. State, country, and en (Continued on Page Two)

TECHNIQUE ELECTION

H. P. Gray Chosen Society Editor At Recent Meeting.

H. P. Gray, '16, was elected Society Editor of Technique at the last meeting of the Technique Board. He fills the vacancy left by George Roper, '16, who has left school for the present but may be back at Mid-years.

Gray is head of the Athletic Department of The Tech and is also Chase Captain of the Hare and Hounds. He was a candidate for Assistant Business Manager of Technique. He is a member of the Kappa Sigma Fraternity.

WANDERING GREEKS

All Greek letter fraternity men from other colleges who are attending the Institute are requested to leave their names, fraternity and college at the Cage for the Society Editor of Technique 1916. As Technique is now going to press in part it is desired that they attend to the matter as soon as possible.

M. I. T. A. A. MEETING HELD LAST EVENING

Amendment To Constitution—Fletcher Elected To Advisory Council.

A regular meeting of the M. I. T. A. A. was held yesterday afternoon at five o'clock in Room 8, Eng. C. The section regarding captains of teams was amended to read: The captain of the Cross-Country Team shall be elected two weeks after the I. C. A. A. A. run and shall be elected by those men constituting the team in the I. C. A. A. A. and N. E. I. A. A. meets. Reports were read and accepted from the Track and Basket-Ball teams. It was voted that the Athletic Association consider the sending of a four-mile relay team to the I. C. A. A. A. Indoor Meet, provided the team show sufficient quality to insure competition. The resignation of Harold R. Crowell from the Advisory Council was accepted and Ralph L. Fletcher was elected to fill the vacancy. It was voted not to allow the records equalled in the 100-yard and 220-yard dashes in the N. E. (Continued on Page Six)

TECHNIQUE PICTURES

Photographs Of Organizations Taken By Next Week.

Arrangements have been made with Notman for taking photographs of the following organizations at the dates given at 1.10 p. m. If these appointments cannot be kept, H. T. Freeman should be notified in order that he may make other arrangements with the photographer. Freeman also desires that the managers or secretaries of these organizations should see that everyone concerned be given due notice.

Junior Prom Committee, Wednesday, January 6, 1915.

M. I. T. A. A., Friday, January 8. 1917 Governing Board, Monday, January 11.

1918 Governing Board, Tuesday, January 12.

T. C. A. Board, Wednesday, January 13.

Institute Committee, Thursday, January 14.

Advisory Council A. A., Saturday, January 16.

NOTICE TO FRESHMEN

All freshmen who can play a snare drum, fife, or a bugle, are requested to speak to the musician at drill on the next drill day. If acceptable, they may be excused from drill. No bass drummers need apply.

TECH SHOW ORCHESTRA TRIALS TO BE HELD

Mr. William Howard To Conduct Orchestra Again This Year.

The try-outs for the Tech Show Orchestra are to be held at four o'clock tomorrow afternoon, in the Union. Mr. William Howard, who was so successful with last year's orchestra, has signed a contract for this year, and will have charge of this first competition.

The Show Orchestra will play at each production of "Getting A-Cross," (Continued on Page Six)

CONCERT AND DANCE

Tickets Selling Rapidly For Friday's Event.

Next Friday evening, the Combined Musical Clubs and the Institute Committee will give a Concert and Dance. The concert is to be held in Huntington Hall from eight to nine forty-five, and will be followed by dancing, which will begin at ten o'clock, both upstairs and downstairs in the Union.

The advance sale of tickets has been heavy, and from all indications, the supply will soon be exhausted. While they last, they may be obtained at the Cage, or from members of the Musical Clubs or of the Institute Committee.

C. E. SOCIETY

The list of members of the Civil Engineering Society is to be handed in to Technique 1916 by Jan. 20, so that all those wishing their names on the list must have their dues paid by Jan. 18.

CALENDAR

Wednesday, January 6, 1915.

7.45 Officers' Club—Union

Thursday, January 7, 1915.

1.30 News Men Meet—Lower Office.

4.00 Civil Engineering Society

Meeting—11 Eng. B.

4.00—Tech Show Orchestra Tryouts

—Union

5.00 Hockey Practice—Arena.

6.30 Electrical Engineering Society

Annual Dinner.

8.00 Novice Team vs. B. Y. M. C.

U. Seconds.

Friday, January 8, 1915.

1.10 M. I. T. A. A. Photographs for Technique, Notman's, 4 Park St.

8.00 Musical Clubs Concert and Dance, Huntington Hall.

4.15 Mandolin Clubs Rehearsal, Room B., Union.

THE TECH

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WEDNESDAY, JANUARY 6, 1915.

IN CHARGE OF THIS ISSUE.

Editor: J. M. DeBell '17.
Associate: J. G. Fairfield '16.
Assistants: F. A. Stearns '17, A. R. Brooks '17, K. M. Lane '17, J. W. Damon '18.

One of the units most essential to the success, from a musical standpoint, of Tech Show, is a competent and well-drilled orchestra. Last year's superb organization set an example worthy of emulation. This year many of the old players have returned, and the same conductor has been secured. We hope that newcomers to the Institute, who have skill on any instrument, will respond to today's call, and build up about the nucleus of last year's veterans an orchestra which will make the music of "Getting A-Cross" the finished product expected by those who have enjoyed previous Tech Shows.

The treasurers of the two lower classes have not yet corrected to date their lists of paid members on the Union wall. The laxity which leaves this important duty so long unfilled is a dubious indication of fitness for the exacting position of treasurer.

CLASSMATES WED

Announcement has been received of the marriage of Malcolm Lewis, '14, Course VII, to Miss Janet Baker Higby, at Erie, Pa. Miss Higby was a student in the Institute last year in Course V. Mr. Lewis is now instructor in Bacteriology in Rutgers College, New Brunswick, N. J.



It is estimated only twelve deaths have occurred during the season of 1914 as a direct result of football. All of those injured who died were under twenty years of age. The causes of the fatalities were various. Tackling was responsible for four; heart-failure and blood poisoning for two; blows on the head killed two; three were killed in scrimmages, and one died after a head on collision.

The University of Illinois has sent over five thousand articles of clothing to refugees in the European war. Actions by two college bodies indicative of good spirit have received notice in the newspapers recently. The students of Stevens Institute demanded the removal of their own coach, because the latter in the game with N. Y. U. had sent back into the game, disguised by plasters and a different sweater, a guard who had been ruled out by a referee in an earlier period. The Fordham undergraduates voted the score of their game with Vermont, 7 to 6, despite the fact that the referee had declared that Captain Wymard of Fordham kicked the goal after a touch-down by his team. A misunderstanding concerning the ruling of the officials was responsible for the controversy, but the majority of the New York spectators saw that the ball did not go between the goal posts.

ALUMNI BANQUET

(Continued from Page One)

Engineering interests are to be represented in the speakers, Lieut-Governor Grafton D. Cushing, ex-President William Howard Taft, and Howard Elliott, president of the N. Y., N. H., & H. R. R. President Richard Cockburn Maclaurin of the Institute will welcome the alumni and present the guests. For the concluding exercise, the president-elect of the association, Henry J. Horn, '88, will officially take up his duties.

In addition to these features there are always others between the courses that are in the nature of surprises to the company. These are looked after by the committee, which includes George B. Glidden, '93, chairman, Harry S. Mork, '99, Don Galusha, '04, Lawrence Allen, '07, of Boston, and Orville B. Denison, '11, of Worcester. Besides this meeting of the parent association, many of the local associations are now having their own local festivities.

HOCKEY GAME

The Hockey Team will play the East Side Hockey Club of Providence, R. I., on next Saturday. The team will leave Back Bay Station on the 1.02 train. A list of the men who will make the trip will be published in the Friday's issue of The Tech.

There will be practice this afternoon at five o'clock at the Arena.

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THE WAR OF NATIONS AND THE INSTITUTE

Technology Feels No Necessity — Supplies On Hand For Present Year.

Technology, while far removed from the scene of the present European conflict, is affected by existing conditions to a certain extent. There is, to be sure, no direct falling off in the number of students attending; on the contrary, there is an increase over last year. There are, however, some students who are not in attendance this year because of the war and a few members of the teaching staff are still engaged at the front. The direct influence has to do with Institute finances and certain classes of supplies.

In the first case business conditions have affected certain manufactories to such a degree that some well-to-do students, who rarely are in need, are feeling the financial stringency. In one or two southern colleges warehouse receipts for cotton are accepted as tuition payment. At Technology it has been found that but few students are greatly financially embarrassed and yet Bursar Ford has seen fit to be lenient in the matter of payments to those students whose homes are abroad and others whose capital is low because of lack of remittances. Students with foreign connections find it hard to obtain funds because the lines of communication are cut off or very uncertain. Another reason why it is hard to get money from Europe is that rates of exchange are now quite high. One student recently received only \$230 out of \$300, the transfer being made from Russia.

As another direct result of the cutting off of communication, certain chemical supplies and text books from Germany have been found wanting. Some time ago this fact was made evident when the German department requested that all text books held by those who had already used them should be passed along to the next class. In the matter of chemical supplies a shortage of flasks is principally felt. The Institute purchasing agent, Mr. A. C. Melcher, gave orders some months ago and with enough supplies on hand to complete the school year, little worry is evident. Shipments from Rotterdam are all that are coming through but it is almost certain that enough will reach America from Germany to satisfy the needs of the chemical department. The price of chemicals has not materially increased. Copper and nickel are all that have shown a marked advance, others remaining at the usual prices.

The greatest effect is that in regard to the new Technology. In his recent report to the Corporation President MacLaurin states that some gifts due to the Institute are withheld for the present because of the depression in business conditions and also that the real estate stagnation has in a large measure cut off sums of money that might immediately be put into the new buildings. Unless the war continues for too long a time, however, these adverse conditions will adjust themselves so as to produce no permanent ill effects on the Institute.

RELAY TEAM TRIALS TO BE HELD TODAY

Competition Keen — Guething And Colleary Make The Best Times.

Time trials for the 390-yard relay team which will meet Harvard at the Coast Artillery games on Jan. 16th will be held at the gym this afternoon, and competition for the team is so close that even Coach Kanaly refuses to make any statement as to the probable makeup of the team.

One man is sure of his place. Carl Guething is running far faster than any man who has represented the Institute indoors at that distance for several years. In addition to being the fastest man on the squad, he has the advantage of being a big, rangy runner and a hard man to pass on an indoor track.

Up to the present Bill Colleary has been running second man, covering the distance about a second slower than Guething. Although Colleary is better known throughout New England as a broad jumper and all-round athlete, he made a name for himself at Holy Cross as a member of their fast mile relay.

The other two places on the team seem to be a toss-up with "Kem" Dean, Bill Adams, Frank O'Hara, Charlie Reed, Tom Barry and "Jeff" Read all in the race. O'Hara, when in condition is easily the fastest of the lot, but owing to a death in his family, he was unable to do any running during the fall, and is just getting into condition. Although he may not show up any too strongly this afternoon, he is practically certain to be

(Continued on Page Five)

KEOKUK DAM ADDRESS

Mr. H. L. Cooper To Speak Before Civil Engineers.

On Thursday at 4.00 p. m., Mr. H. L. Cooper, the chief engineer of the Keokuk Dam Project, is to speak before the Civil Engineering Society in 11 Engineering B.

Mr. Cooper is one of the most prominent engineers in the country and has carried out other engineering projects besides the recent Keokuk Dam. He is the designer of the largest water turbines ever built.

He has some very good lantern slides which it is hoped he will be able to show at the meeting. The society extends an invitation to all to be present.

MUSICAL CLUBS

Concert At Simmons—Abrams Reviews Midwinter Trip.

The Musical Clubs will give a concert next Saturday evening, beginning at 8.30, at Simmons College. The affair will take place in the Refectory, and will be followed by a dance; it is given under the auspices of the Ohio Club.

General Manager Abrams of the Musical Clubs has gone over the route to be covered in the mid-winter trip, and reports conditions very favorable in all the cities he visited.

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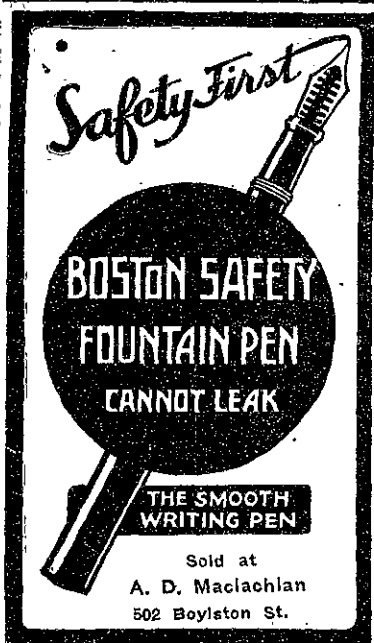
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INSTITUTE ACQUIRES BALDWIN LIBRARY

Old Books Of Loammi Baldwin On Civil and Mechanical Engineering.

A very important acquisition by the Library of the Institute is the Baldwin Engineering Library, which has been deposited with the Institute by the Woburn Public Library. The Baldwin books have rare association in addition to their intrinsic value. There are among them volumes that belonged to the original Loammi Baldwin of Woburn, "the father of Civil Engineering in America," a schoolmate of Count Rumford, and a friend of George Washington. The original Baldwin was related to every engineering project of consequence in the country.

Loammi, his son, who carried on his father's great works, was the engineer of the Milldam in Boston, and of the great Union Canal in Pennsylvania, and he was the authority delegated by Massachusetts to report on the possibility of a canal from Boston to the Hudson, in connection with which the idea of piercing the Hoosac Mountains with a tunnel was first broached. It was to be a tunnel for the canal, for railways had not been started at that date. The younger Loammi was consulted on the building of dry docks at Charlestown and Norfolk, and was foremost adviser on the Bunker Hill Monument. In a journey to Europe he began the collection of books by obtaining all the engineering and scientific books available in 1825. Two brothers, James F. and George R., added to the library.

The library came by inheritance to Mrs. C. R. Griffith, daughter of George H. Baldwin, who, mindful of the danger to the collection from a fire in the same house, presented it to the Woburn Public Library. The gift was on the most liberal terms: the books were to be kept together as one collection, they were to be accessible to all inhabitants of Woburn, they were to have no lettering on the outside other than that which the original owner placed there, the Baldwin arms were to be used for the book plate and in case the Woburn Library was ever given up the library was to become the property of the Institute.

It seemed to Mr. Evans, librarian at Woburn that the best interests of the library would be served by depositing the collection with Technology—the more so since the owners had felt so friendly to the school. The present arrangement was therefore made, the library remaining the property of the Woburn institution, but in the custody of Technology, which looks after its cataloguing and care and places the volumes at the service of the students. Woburn at the same time reserves for its citizens the right always to have free use of the library.

The Baldwin Library is a collection of some 2200 volumes in all languages, representing the limited editions of olden times. It is now

(Continued on Page Five)

STUDENT ENGINEERS MAKING PLANT TEST

Annual Boiler Efficiency And Fuel Consumption Test Of M. I. T. Plant.

Monday morning the annual boiler and turbine tests started in full sway. This "plant test" lasts until Saturday morning at eight o'clock, and is carried on by members of Courses Six, Ten and Thirteen. During this time the men will work in eight-hour shifts, which will be from 8 a. m. to 4 p. m., 4 p. m. to midnight, and midnight to 8 a. m.

Each man has his own particular station, and performs the duties of this post and no other. Readings are taken from which will be calculated the efficiency of the plant as well as the consumption of fuel and the energy lost in the several divisions of the plant.

Stations have been established for taking the temperature of the feed water and outside air, as well as for taking the boiler and vacuum pressures, taking samples of the flue gas, and analyzing the gas. Indicator cards are frequently taken on the different engine tests, the condenser water weighed and the losses calculated. The customary ammeter, wattmeter, and counter readings are the only ones taken in the electrical tests.

Hot coffee is brought from the Union to the engine rooms to cheer the workers during the long night hours.

The groups working are as follows:

Group 1: Aiken, Alger, Althouse, Armstrong, Bailey, Baker.

Group 2: Bauer, Belcher, Best, Bidwell, Blodgett, Boynton.

Group 3: K. K. Boynton, Brackett, Brand, Segal, Brown, Burtner, Calder, Cotton, C. C. Chu, T. S. Chu, Clark, Codwise.

Group 4: Casselman, Coldwell, Cole, Coleman, Conover, Curtis.

Group 5: De Beech, Dickenson, Pizzorno, Eddy, Field, Fogarty.

Group 6: Dalton, Hughes, Fonseca, Harbaugh, R. Hart, R. F. Hart, Haylett, Helseth, Holmes, Holman, Howlett, Eaton, Folk.

Group 7: Hurvits, Jacobs, Kahn, Kaufman, Kennedy, King.

Group 8: Kramer, Lacy, Landers, Lapp, Lasso, Leeb.

Group 9: Little, Loveland, Lowenberg, Lucey, Mack, Schwartz, Moody, Munn, Marion, Miller, Munyan, Neal, Yuan.

Group 10: Stetson, Nelson, Lamb, North, Noyes, Perrin.

Group 11: Rosenthal, Place, Pollard, Ramsay, Rooney, Russell.

Group 12: Malone, Pond, Joslyn, Sifton, Smith, Dana, Stewart, Stringfield, Tseng, Turrell, Urquhart, Vogel, Yuan.

Group 13: Whittall, Walcott, Wang, Weaver, Welles, White.

Group 14: Sherman, Williams, Elliott, Worthington, Wostrel, Spear.

FACULTY NOTICE

Third year Physics Heat problems will be returned in the basement of Walker Building for one week beginning Jan. 4th.

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The high jump on Saturday should produce some close competition when Sullivan, McKinnon, Wallace and Teeson all get together. Wallace gets a spring into his jump which shows promise of a good jumper after some of the faults in his form have been corrected.

Captain Cook will have things pretty much his own way in the mile run, and should run well under 4.40, fast time for the distance on the twenty lap track at the gym.

Harvard will send practically the same relay team to the Coast Artillery games, as the one which established the record of 3 min. 3 sec against the B. A. A. last year, Barron being the one man lost by graduation.

Material for the four mile relay which was proposed for the I. C. A. A. A. indoor games in New York is not showing up very rapidly, and unless more interest in the event is shown, it is very likely that only the short relay will be entered.

Cornell at present looks like the strongest contended for first place in the four mile event, with the wealth of distance men which they will have from their championship cross-country team.

Leslie's graduation leaves the team without a first class shot putter, and Coach Kanaly is on the trail of anyone that even feels like a shot putter.

Colleary is without any doubt one of the best all-round athletes in New England. He has done twenty-two feet in the broad jump, five feet eight in the high, and is at present running second man on the 390 relay.

The new idea of a star appended to a varsity "T" to denote that the wearer has won his letter in more than one sport, or whose work following the winning of his letter merits it, follows the custom in vogue at Annapolis and West Point, where stars in addition to the letter are awarded the men for each one after the first Army-Navy game in which they participate.

BALDWIN LIBRARY
(Continued from Page Four)

housed in Engineering A with the 30,000 other books of the Engineering Library on Civil and Mechanical Engineering. The accommodations are inadequate but will receive better display when Technology occupies its new buildings in Cambridge.

NEWS MEN MEETING

There will be a meeting of all the News Men of The Tech next Thursday at one-thirty in the Lower Office.

RELAY TEAM
(Continued from Page Three)

found toeing the mark against Harvard.

Barry ran on last year's team and when in condition is a fast indoor man. Owing to the fact that he has been training only two weeks, it is hard to tell whether he will be able to get down to weight for the final trials. "Kem" Dean was a member of the team last year, and has been training consistently all fall. Adams was a member of the team two years ago, and although running outside of his distance is able to negotiate the 390 in better than 50 seconds. Charlie Reed and "Jeff" Read specialized in broad jumping last spring, but both have come out strong for the relay. Reed ran second to Tom Guething in the quarter mile during the 1913 season, and has been coming fast the last two weeks.

The team when picked should be one of the best which has ever represented the Institute. In addition to being fast, the team will be composed entirely of big, rangy men, hard to pass on an indoor track, and with the strength to pull them through a hard season.

NOVICE TEAM PICKED

Matmen Are Practicing For First Second Team Meet.

The novice team to represent the Institute in the meet Thursday with the B. Y. M. C. A. second wrestling team has been practically picked from the way in which the men have shown up during the past two days. There is still need of men in the heavy-weight class, however. The team is now made up as follows: 115-pound class, Means; 125-pound class, Clark; 135-pound class, Wooten, White and Magoun; 145-pound class, Pinkham; 158-pound class, Bond, Mertz and Wirt; heavy-weight class, Blodgett.

M. I. T. FORUM

Attempt Will Be Made To Interest Non-Socialists.

Yesterday's meeting of the M. I. T. Forum was occupied with details of the club's organization. The annual dues were fixed at twenty-five cents. Committees on dates of meeting and on publicity were appointed and instructed as to duties.

It was decided to set aside an hour convenient to the members for discussion of questions concerning Socialism which are of interest to non-Socialists and to try to induce such of the latter as are interested in the question to take part in the discussion.

FINE ARTS TALK

On next Sunday afternoon, Professor Henry L. Seaver will speak on "A Portrait Bust of Madame du Barry," at 2.45, in the Department of Western Art at the Museum of Fine Arts.

Formal Garments

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SHOW ORCHESTRA
 (Continued from Page One)

and all of the members will be taken on each out of town trip. It is to be made up entirely of undergraduates, as it was shown last year that there is sufficient musical ability in Technology to warrant the exclusion of professionals.

Men who play any instrument whatever are requested to come out and try for a position. The Show will furnish instruments if necessary for all men who are retained. They need not be brought to the meeting tomorrow afternoon.

PROF. BRADLEY WEDS

Professor H. C. Bradley is receiving congratulations for his marriage during the Christmas holidays to Miss S. S. Steere of Amesbury. Professor Bradley was a graduate of the Institute in the class of 1891, and has been teaching Drawing and Descriptive Geometry at Technology since 1897.

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M. I. T. A. A.
 (Continued from Page One)

I. A. A. Meet, May, 1914, owing to the favorable wind. Contracts for games between the Basket-Ball Teams of M. I. T. and Wesleyan, to be played at Wesleyan, and with the New Hampshire State College team, to be played at Durham, N. H., were accepted. Irving Young was elected Assistant Manager of the Hockey Team. The meeting was then adjourned to Tuesday, Jan. 12th.

TECHNOLOGY MONTHLY

The next number of the Technology Monthly will be out January 18 and will contain a number of articles by undergraduates.

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