

THE TECH

VOL. XXXV. NO. 58

BOSTON, MASS., MONDAY, JANUARY 3, 1916

PRICE THREE CENTS

MUSICAL CLUBS ALL-TECHNOLOGY CONCERT

Institute Affair To Be Held In Huntington Hall Friday Night.

Upholding the policy of every activity at the Institute at this time, to maintain and increase the present interest of the undergraduate students in their school and in their fellows, the Combined Musical Clubs have scheduled a mammoth All-Technology Concert, to be presented in Huntington Hall on Friday evening, January 7. The price of admission has been placed low enough to be in reach of everyone and there will be no reserved seats. Fussing has been especially encouraged at the concert by the management. A special section has been set aside for such as care to carry on a competition between the far-famed medley of the Glee Club and the honeyed words of some fair admirer about the perfect dear of a tie your neighbor got for Christmas.

All the separate attractions of the clubs were being booked at the time of going to press and among these was the heartrending, dramatically dreadful, dreadfully dramatic, deep drama entitled "Experience Junior." The second assistant stage manager expressed some doubt as to his ability.

(Continued on Page Five)

JUNIOR STATISTICS

Free Copy Of Technique To Be Awarded Friday.

The results of the recent Junior "statistics campaign" were, according to Technique, very satisfactory: although only a hundred odd papers were turned in before the time limit, January 1, the contents of the majority of them were so excellent that the Board anticipates considerable difficulty in selecting the best set of answers.

Statistics which are handed in late will be counted in making up the roster of class notables, but their writers cannot be considered eligible for the free book offered for the best answers. The name of the winner will be announced after the Board meeting next Friday.

BASEBALL MANAGER

Candidates for freshman Baseball Manager are requested to hand in their names and previous experience at the Cage before next Wednesday at 5.00 o'clock.

BANJO CLUB NOTICE

There will be an important rehearsal of the Banjo Club today at 5.00 o'clock in 6 Lowell. All men are requested to be on hand promptly.

HOCKEY TEAM VICTORY FIRST IN TWO YEARS

Amherst Aggies Beaten By One Point—Clark And Johnson The Stars.

After losing their first game of the season to Dartmouth by the one-sided score of 6 to 0 the Technology Hockey team succeeded, last Friday night at the Arena, in defeating Amherst Aggie by a score of 1 to 0, the single tally being made by Clark. This occasion marked the first victory registered by an M. I. T. hockey team in two years.

The game was far from uninteresting, the feature being perhaps the lack of skill rather than any brilliant play shown. The onlookers found it difficult to determine which was the poorer team, both sides doing ragged work, with many spills and broken sticks. The opinion was expressed that the game was more shinny than hockey, both teams abandoning all attempts at team work and position play, after the one goal was caged.

Technology's score came early in the game, Clark, after a number of spectacular raids into the Aggies' territory, finally succeeding in shooting the puck by Wilder and Plaisted into the basket. The outcome of the clash was in doubt, however, until the final bell rang. Johnson at goal saved the game repeatedly for the Institute, stopping many hard drives. In the second half especially Aggie threatened many times to score.

(Continued on Page Three)

C. E. SOCIETY

Last Meeting Of Term To Be Held Wednesday Evening.

The C. E. Society will hold a meeting on Wednesday evening at 7.30 o'clock in the Union. The speaker is to be Mr. E. F. McSweeney, chairman of the Directors of the Port of Boston. Mr. McSweeney will talk on "The Development of the Port of Boston." This meeting is the last one of the term. A speaker has already been secured for the first meeting next term, to be held February 11.

ALUMNI COUNCIL

At the last meeting of The Alumni Council, the following list of officers was announced: President, Charles A. Stone, '88; Vice-president, Joseph H. Knight, '96; Secretary-Treasurer, Walter Humphreys, '97; Executive Committee, Harold E. Kebbon, '12, and Grosvenor D. Marcy, '05; Representative-at-large, Frank H. Briggs, '81; Lester D. Gardner, '98; H. W. Gero-manos, '02; William G. Snow, '88, and Charles W. Whittemore, '09. At the same meeting, plans for the dedication of the New Technology in June were drawn up.

PRELIMINARY DEVELOPMENT OF TECH SHOW

This Year's Play To Be Basically Different From Former Institute Plays.

With the book, by R. H. White, O. R. Freeman, and O. C. Norris, practically finished, and the prepara-



R. A. FLETCHER, '16.

Gen. Manager Tech Show 1916.

tion of the lyrics and music well under way, the eighteenth annual Tech Show, "M 34," is rapidly shaping itself.

"M 34" is radically different from the productions of the past, and has been developed in response to three principal demands: first, a demand on

(Continued on Page Five)

POWER TRANSMISSION

Clarence B. Sawyer To Address M. E. Society.

Next Wednesday afternoon at 4.00 o'clock Mr. Clarence B. Sawyer will speak before the M. E. Society in 11 Engineering B. His subject will be "Mechanical Transmission of Power." Special reference is to be made to Rope Drive.

MENORAH SOCIETY

The Technology Menorah Society held a meeting at 4.15 o'clock in 11 Engineering B, on Friday, December 31. Mr. Jacob de Haas, a prominent Zionist, and Editor of the Jewish Advocate, delivered an address, the subject of which was Zionism.

TRACK NOTICE

The first trials for the 390-yard relay will be held on Tuesday and Thursday of this week in the Gymnasium.

JUNIOR DINNER TO BE HELD NEXT THURSDAY

Prominent Speakers To Talk On Dedication Plans For New Institute.

Preparations have been completed for the Junior Dinner which will be held in the Union on next Thursday, Jan 6, at 6.30 o'clock.

The committee has secured a number of interesting speakers for the event. The list includes Professor Davis R. Dewey, of the Economics Department, Dean Burton, Mr. I. W. Litchfield, '85, and Mr. H. J. Horn, '88, President of the Alumni Association last year. The general topic for discussion will be the dedication of the new Institute, each speaker talking on one particular phase of the subject. This will be the first time the actual plans have been given out.

Besides the speakers, an entertainment has been arranged.

Tickets for the dinner may be obtained from various members of the class or at the Cage. Tickets are seventy-five cents per plate.

INDOOR TRACK MEET

Will Be Held Next Saturday In The Gymnasium.

The annual indoor Interclass Track Meet will be held next Saturday at 2.30 o'clock in the Gymnasium. All the regular events with the exception of the pole vault and the two mile run will take place. It will be the first real competition that the track squad has had this year.

All men who have been working on the squad are required to enter. Harvey S. Benson will give a cup for the first place in the mile run.

The heats for the 440-yard run will take place sometime during this week so that the final heat can be run Saturday.

TECHNOLOGY PHOTO

The deposit will be forfeited on all of the "All-Technology" photographs that were not called for before January the first.

TECHNIQUE PICTURES

The pictures of the Senior, Junior, and Sophomore Governing Boards will be taken Thursday, Jan. 6; Friday, Jan. 7, and Monday, Jan. 10, respectively.

CALENDAR

Monday, January 3, 1916.

5.00—Glee Club Rehearsal. Room B, Union.

5.00—Banjo Club Rehearsal. Room 6, Lowell.

6.30—Wireless Society Dinner. Rooms A and B, Union.

Tuesday, January 4, 1916.

4.00—Mandolin Club Rehearsal. Room B, Union.

THE TECH

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MONDAY, JANUARY 3, 1916

A TRADITION UPHELD.

The confidence which the undergraduates seem to have had in the judgment of the Institute Committee in recommending to the Alumni Council a suitable form of dormitory administration proved to be eminently well placed. The proposed plan, which was adopted at the meeting of December 21, 1915, and which is now before the Alumni Council, gives evidence of the most careful consideration on the part of those who drew it up. To many it was perhaps surprising that so complete and detailed a scheme could have been worked out by men who have had little or no experience with dormitories; and, indeed, it was not so much their knowledge of dormitories as their knowledge of Tech men, derived partly from the Summer Camp, that equipped them with the authority to make so definite a recommendation.

Whether the Alumni Council decides to carry out the recommendation to the letter, is of minor importance. Of major importance is the underlying principle that the administration shall be left wholly in the hands of the students. This is the principle which has been applied at the summer camp, it is the principle which has been applied at the Institute, it is the principle that has been the chief factor in enabling Technology to turn out responsible men, rather than educated boys. The Alumni Council will not only be serving Technology in applying this principle to the new dormitories, but it will be serving the cause of democracy as taught to American citizens in American colleges.

Although suffering a defeat at the hands of Dartmouth the Hockey team is deserving of congratulations for the Aggie victory. It is probable that the "hearty hand-shakes" which many of the team received after the game if offered in the proper spirit were due to the wonderful manner in which the Hockey team has clung together during the last two seasons, in spite of its unbroken line of defeats, rather than the hockey exhibited during the contest which was little more than a fair game of "shinny."

NEW CATALOGUE

Records Show Increase Over Last Year's Registration.

The catalogue for the year 1915-16, sets forth the number of students at the Institute at 1900. This shows an increase of 86 over the registration of a year ago, and keeps up the almost unbroken record for increase that the Institute has maintained almost every year since it started. Following is the list in detail in comparison with that of a year ago:

	1914-15	1915-16
Resident fellows	4	4
Non-resident fellows ..	1	1
Candidates for Dr. of Engineering	2	5
Candidates for Dr. of Philosophy	6	10
Candidates for Master of Science	34	51
Graduate Students ...	290	331
Fourth Year Students	315	346
Third Year Students	262	299
Second Year Students	268	281
First Year Students	362	342
Special Students	108	91
Unclassified Students	474	458

COMMUNICATION

To the Editor of the Tech:

As the opinion of the student body was called for in regard to the government of the proposed Technology dormitories, I wish to offer these suggestions.

1. A Parietal committee composed of members of the Faculty shall look after the maintenance of the buildings and shall have the power to set penalties for such acts as may be detrimental to the reputation of the dormitories and of the Institute.

2. There shall be a number of proctors, also members of the Faculty, who shall reside in the dormitories and have the power to deal with students for such minor offences as do not require the judgment of the Parietal committee. They may also at their own discretion report any resident of the dormitories to the Parietal committee for breaking of dormitory rules.

3. A house representative for each section, preferably a student who has resided in the dormitories for a number of years, shall each year be elected by the students in each separate section. He shall have the power to report students to the proctors, maintain order in his section, and report any necessary repairing or necessity for his section.

These suggestions are based on three years' residence in one of the largest systems of college dormitories in the States. L.-L. WISNEW.

ALUMNI BANQUET

Prominent Speakers Engaged—Novel Entertainment.

The annual banquet of the Alumni Association will be held at the Copley Plaza on Saturday evening, January 8, at 7.15 o'clock. The list of speakers includes Hon. Samuel Walker McCall, Governor of the Commonwealth, Samuel Insull, president of the Commonwealth-Edison Company of Chicago, President Maclaurin, and Charles Augustus Stone, '88, the incoming president of the association.



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**WIRELESS SOCIETY
BANQUET TONIGHT**

List Of Speakers Includes Mr. H. C. Gawler And Professor Kennelly.

This evening at 6.30 o'clock the Radio Club will hold its first banquet of the year. Whether any more such meetings will be held depends upon the success of the present occasion and the hearty co-operation of all members of the society is essential. Several excellent speakers have been secured including Mr. H. C. Gawler, the radio inspector of this district, and Professor Kennelly, of the research department of Harvard and Technology, who has spent much time and effort in the club's behalf. Tickets for this affair have been sent to all members who have paid their dues, but anyone interested is invited whether a member of the society or not. The price is fifty cents and can be paid to the officers of the society or to H. W. Lamson at 16 or 25 Walker.

On the first day of the Christmas recess through the courtesy of Mr. H. J. Power, several members of the club were permitted to visit the new station at Tufts College. The plant is owned and operated by the American Radio and Research company, of which Mr. Power is vice-president and general manager. The station itself is shortly to be closed to the public for some time while experiments are being conducted. The mast is approximately three hundred feet high and guyed by four sets of guys. The antenna is of the umbrella type and consists of ten wires, each about four hundred and fifty feet in length, radiating from the top of the tower. At a point about one hundred and fifty feet above the earth these wires are broken by insulators, thus not allowing the effective portion to come near the ground. The upper ends of these wires are connected together by a stranded conductor which in turn is connected to the lead in. Both tower and guy wires are insulated from the earth so that when these are used as an antenna the capacity is very large. The ground connection is made through a network of copper wires buried about eighteen inches in the soil and covering the whole hillside of the college campus. The soil in the locality is exceptionally moist so that good connection with the earth is always assured.

The building occupied was designed especially for radio research work and contains two office rooms, a room for the Tufts Wireless Club, and a large operating room. In the basement, set on a concrete foundation, is a well equipped machine shop capable of turning out any kind of experimental apparatus. The power for the lathe, highspeed drills, planers, etc., is furnished by a motor driven by the city mains. Mr. Power plans to convert this current, which is 250 volts, three phase A. C., by means of a rotary converter into 500 volts D. C., for use in transmitting both wireless telegraph and telephone messages.

The operating room is equipped with instruments of the most modern type. For receiving, an oscillating



The report of the Dean of Brown University recently published statistics regarding scholastic standings of the various classes of students. One of the items showed that the non-fraternity men had a slightly better standing than the fraternity men.

"Wigs and Cues," the dramatic organization of Columbia University, presented three short Irish plays a week ago.

Doctor Edward Breck, of the Navy League, has criticised the preparedness speech of President Garfield of Williams College in a long communication to the Williams Record.

The play to be given by "Sock and Buskin," of Brown University, is "Arms and the Man," by George Bernard Shaw.

The Glee and Mandolin Clubs of Columbia University gave a concert at the Hotel Astor in New York Saturday under the auspices of the Wellesley Club.

The thirtieth anniversary of the founding of the "Pennsylvanian," of the University of Pennsylvania, occurred Wednesday, Dec. 15. The newspaper started originally as a weekly.

FACULTY NOTICE

Third Year Physics Heat Problems will be returned in the basement of Walker until January 11.
PROF. C. L. NORTON.

AMHERST DEFEATED
(Continued from Page One)

shooting the puck at Johnson five times to Technology's one at Buttrick, but Johnson's work allowed the Institute to hold its narrow lead to the finish.

The lineup:

M. I. T.	
Woodward	I. W.
Clark	C.
Tutein	R.
Ross	R. W.
Watt	R. W.
Cochrane	C. P.
Swain	P.
Johnson	G.

M. A. C.	
Sanderson	R. W.
Stiles	R. W.
Fernald	C.
Chisholm	R.
Wooley	I. W.
Wilder	C. P.
Plaisted	P.
Buttrick	G.

audion, loose coupled receiving transformer, four variable condensers, a secondary inductance, and a pair of amplifying telephone receivers with mica diaphragms are used. While the party was at the station Hanover, Germany, was heard with this apparatus.



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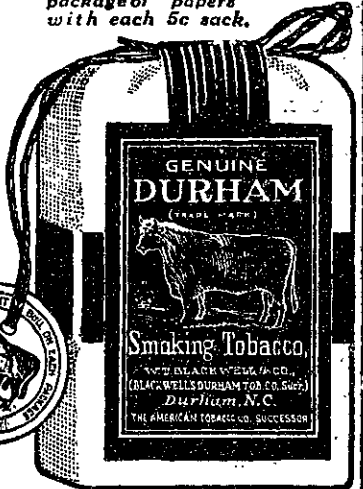
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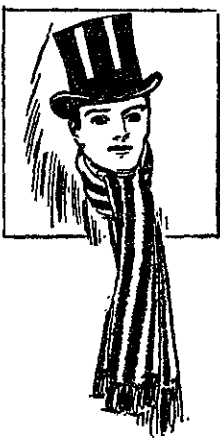
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**Attendance To Be Taken On
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Hours Changed.**

Beginning Monday, January 3, three hours a week will be reserved for the varsity wrestling squad practice. No one else will be allowed on the mat during these hours: Monday 5.00 to 6.00, Wednesday 5.00 to 6.00, and Friday 5.00 to 6.00. The varsity squad is made up of the following fifteen men: Bone, Bond, Ellwell, Giles, Hoffman, Hunt, Loo, McFarland, Morse, Rounds, Sache, Stebins, Todd, Wirt, and Wooten. These men will be expected to report at each of these periods and attendance will be kept.

The freshmen who formerly practiced during varsity hours will now report Monday, Wednesday, and Friday from 4.00 to 5.00 o'clock. The second varsity team and the freshman will also report at the same time. The freshman team squad includes: Boley, Coldwell, Davis, Deane, Hoffman-Pinther, Holt, Inglis, Kitchin, Little, McMorran, Paterson, Root, Smith, and Sullivan. Changes which may be made in these sections will be posted at the Gym.

**WALKER MEMORIAL
AT NEW INSTITUTE**

**Union, Gymnasium And Dormi-
tories To Be In One Group
On River Front.**

At the last meeting of the Alumni Council of the Institute, the architect, William Welles Bosworth, '89, presented plans for the proposed Walker Memorial. Other consideration has followed this and, although the final authoritative action is as yet lacking, the approval has been so general that it seems more than probable that the final structure will agree very closely with the plans as now prepared. Attention to the Walker Memorial has followed, as was anticipated, the completion of the main structural features of the educational group, the success of whose planning is self-evident to everyone who passes along Massachusetts Avenue or the Esplanade.

The Memorial, which is to be the club house of the students, is strikingly beautiful, carrying out, as it does, the architectural ideas of the buildings already in place along the Charles River front. The location of the Memorial is to be east of the educational group, sharing with it the shore of the Basin, and surrounding it will be the dormitories with the gymnasium and the athletic field to the rear. This disposition will bring the student housing, the student activities and their social centre, the Walker Memorial, into compact form and convenient to the lecture halls and laboratories devoted to studies. For the students and their activities land has been reserved to the extent of about fifteen acres.

The Memorial building itself, classic in style, in harmony with the great halls already erected and of the same warm tinted limestone, will be restful to the eye, commodious and convenient for its special uses, and a dignified and worthy memorial to the soldier-statistician who for fifteen years directed the energies of Technology, General Francis Amasa Walker. The principles and motifs of the educational structure reproduce themselves in its easy lines and simple decorations; a pillared portico recalls the striking entrance to the central library while the pavilions with their engaged columns are reflections of the facades of the Great Court, similar in idea but modified gracefully in treatment.

The Walker Memorial was suggested shortly after the death of the President and a fund was subscribed that almost reached \$100,000. It was to be a memorial that was particularly appropriate since, in his life and while he was President, he realized the fundamental need of the Institute for what may be termed a social side. Without dormitories, with the students scattered through homes and lodging houses in every part of Greater Boston there could be no student life distinctive of the college. It was an idea of his to correct the need, but at that time it was the existence of Technology that was General Walker's chief care, so that the luxury of student accommodations could not come during his day.

(Continued on Page Five)

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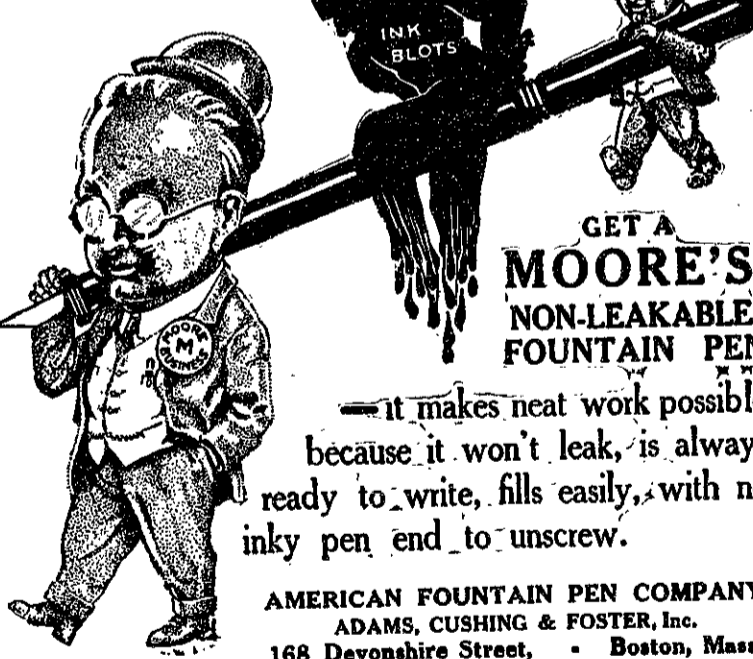
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TECH SHOW 1916
(Continued from Page One)

the part of the Alumni for a play more local in its nature; second, a feeling among certain of the patrons that former shows did not contain as high a type of humor as might have been presented; and third, a desire of Coach Hume for something different from the usual type of musical comedy.

The idea of a sort of "Technology Follies" seemed at first a logical solution of the problem, but this was discarded as being of too low a standard. There has finally been evolved a play which in its development and presentation will prove a vehicle for all the latent talent the Institute may contain.

Coach Hume, being an ardent exponent of modern stage-craft, has been an inspiration to the authors in the development of their idea, and his suggestion that the students might paint some of the drops has ripened into a well-organized plan, not only for the designing and painting of the scenes themselves, but also for a careful study of costuming, color effects and properties.

Modern stage art, owing to its simplicity of presentation of scenes, permits the realization of striking effects at low expense. It is expected that the expenditure for the production of the show will be far less than it has been in former years, when the cost averaged over \$7000.

Being essentially local in its makeup, the play has appealed widely and the response to calls for lyrics and music has been eager. The lyrics are nearly completed, and the music for them will be due tomorrow. The poster, in keeping with the scenic ideas, is to be based upon the latest poster designs.

As an indication of the broad field from which "M 34" is drawn, satisfactory contestants in all competitions for scenes, lyrics, music, and posters will constitute an active committee for the further development of the Show.

TECHNOLOGY CONCERT
(Continued from Page One)

ity to get all the scenic effects over from Chelsea by Friday night as the parcel-post system is at present somewhat under the weather, but he promised to do his best.

This will be the last concert before the mid-year trip, and will be an exact repetition of the Winter Concert, barring accidents. There are no reserved seats, and tickets for the affair are in the hands of all members of the clubs and they may also be secured at the Cage or the office of the clubs.

TECHNIQUE ELECTIONS

L. I. Noyes, W. B. Colleary, N. C. Chase, and Pierre Blouke, Course IV Juniors, have been elected Assistant Art Editors of Technique 1917.

PATRONIZE
TECH
ADVERTISERS

WALKER MEMORIAL
(Continued from Page Four)

There were associated with the original idea some plans with reference to gymnasium, student restaurant and the like. This was in the days of a Technology of much smaller proportions than now. Presently there was developed a plan which materialized, for providing meals. This has become a permanent feature of Institute administration, and with it the Union has provided a meeting place for the students. Meanwhile there came the unrest due to the fact that the Institute, on account of its rapid growth, must presently seek another home for itself. Thus it is that, although plans were once actually drawn for a memorial building to be located on Trinity Place, it was deemed best to defer the construction of the Memorial till the future home of Technology should be decided.

This has been done and the educational structures are almost complete in outward form so that planning of the Walker Memorial is next in order, and the architect's drawings of the proposed building have been approved informally by the authorities. It will cater to the social needs of the students, furnishing an opportunity for meals, a gymnasium, an auditorium and homes for the various activities. The dormitories, which will cluster about the Memorial, are also to be the subjects for special and later plannings. The present planning for the Walker Memorial considers only a portion of the possibilities and much space is left behind it for future extensions, for such a centre for student life is capable of very considerable enlargement.

There are few buildings in the world that have had the attention of experts to a greater degree than those of Technology. Devoted as the college is to technical training, with the oldest school of architecture in the country for one of its elements, the plans have been exceedingly well considered. The matter of the Walker Memorial was given to a committee a number of years ago, but when the matter of removal to Cambridge was discussed and settled a new committee was appointed with Dr. H. W. Tyler at its head. This committee has gone most thoroughly into the essential details. It has been furnished with the plans and histories of all similar new buildings connected with colleges here and abroad. It has carefully considered the special needs of such an institution as this and some months ago reported suggesting various requirements in the new Walker Memorial. The principal ones of these have been fulfilled, namely, a conspicuous site on the Esplanade near Massachusetts Avenue, an architecturally impressive exterior, and an available area for the building itself of from 12,000 to 15,000 feet.

The Walker Memorial of the New Technology bids fair to be the jewel in the remarkably beautiful group of buildings that will grace the Cambridge site.

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ALUMNI CANDIDATES
FOR THE CORPORATION

Three Men Chosen As Contestants For Members Representing The Alumni.

According to the practice for many years the alumni of the Institute have selected three from among their number for candidates as term members of the Corporation of the Institute. The men selected are: Harry John Carlson, '92, an architect of Boston; Henry J. Horn, '88, of Brookline, railroad specialist; and Samuel J. Mixer, M. D., '75, of Boston. The term members are selected to serve for five years, so that there are fifteen such members, directly representing the Alumni, who are together in the Corporation. Messrs. Carlson, Horn and Mixer replace Messrs. Henry Howard, Henry A. Morse and Arthur Winslow, elected in 1911.

Mr. Carlson, whose home is at Newton Center, studied in Paris after graduating from the Institute, in the atelier of Duray and in the offices in New York of Cass Gilbert and McKim, Mead and White. He is of the firm of Coolidge & Carlson, and has designed dormitories at Wellesley College, the chapel at Bates College, library at Hamilton College, Normal and Latin group in Boston and other buildings, business, ecclesiastical and educational. He is a past secretary of the Boston Society of Architects and a member of committees of the Boston Chamber of Commerce. He is one of three architectural advisers to President Maclaurin in regard to location of the New Technology buildings.

Henry J. Horn has been connected in executive capacity with a number of important railways East and West and at present is engaged in special work as advising or consulting expert in matters of management. He was vice-president of the M. I. T. Alumni Association in 1914 and is the president now.

Dr. Mixer is the well known Back Bay physician, and his affinities have been with medical associations. He has been connected with the Massachusetts General Hospital, Carney Hospital, Boston Dispensary and was lieutenant in U. S. A. Medical Reserve Corps. He is a past president of the M. I. T. Alumni Association.

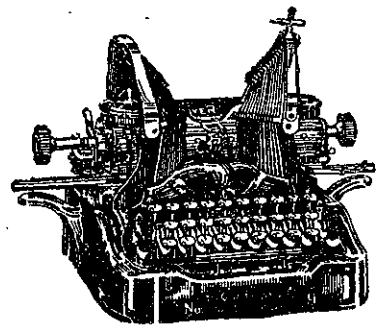
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