

# THE TECH

VOL. XXXI. NO. 9

BOSTON, MASS., THURSDAY, OCTOBER 5, 1911

PRICE TWO CENTS

## LOWELL INSTITUTE COURSES BEGIN OCT. 9

F. V. M. Cumont of Brussels To Give First Series of Lectures.

The first of the Lowell Institute lectures this year will be given by Franz Vallery Marie Cumont. He will give a series of six lectures on "Astrology and Religion in Antiquity," Mondays and Thursdays, at 5 o'clock in the afternoon, beginning Monday, October 9.

Mr. Cumont is Conservator of the Museum of Antiquities in Brussels, Belgium, and was formerly professor of ancient history in the University of Ghent. He has devoted a great deal of time to the subjects of astrology and religion, and has written several books on them, the most important of which are "The Mysteries of Mithra" and "Oriental Religions in Roman Paganism."

Mr. Cumont is a member of the German Archaeological Institute, a member of the Austrian Archaeological Institute, and a corresponding member of the Academy of Belgium and Institute of France. He was also elected to attend the conferences at Oxford in 1901 and again in 1906.

The titles and dates of his lectures are as follows:

Monday, Oct. 9—The Chaldeans and the Formation of an Astral Religion.

Thursday, Oct. 12—Greece and the Astral Religion of Babylonia.

Monday, Oct. 16—The Dissemination of Astral Religion in the Roman Empire.

Thursday, Oct. 19—Astral Theology.

Monday, Oct. 23—Astral Mysticism and Ethics Fatalism and Star Worship.

Thursday, Oct. 26—Astral Eschatology.

These lectures will be particularly interesting because they are on a subject which we do not meet with now in everyday life and yet which at one time were supposed to vitally concern everyone.

The Lowell Institute lectures are held in Huntington Hall and are open free to everyone, but only by ticket. Admission tickets to the first lecture will be mailed, one to each applicant, in the order of application, and until the supply is exhausted, to all persons applying by letter, more than three days before the beginning of any course, to the Curator of the Lowell Institute, 491 Boylston street, Boston, and enclosing a stamped addressed envelope for each ticket. On and after the day on which the course begins, any tickets left over for that course may be obtained at the office of the Lowell Institute, 491 Boylston street, between the hours of 9 A. M. and 4 P. M., or by sending to the Curator (with a specific request for such left over tickets) a stamped addressed envelope.

Persons attending the first lecture before entering the hall may exchange the admission tickets for tickets good for reserved seats for the entire course.

It is unnecessary to press the Institute men to attend these lectures because heretofore they have been there in large numbers.

Blachie was on time at the Freshman dinner the other night. He didn't forget his notes either. Will the wonders ever cease?

"Tsku satre htkjmsad oja himse." Translation of daffydill in Union corridor. One thousand dollars for proof to contrary.

We are to hear the old familiar sounds again in the Union on Friday. Orchestra—that's enough.

## IMPORTANCE OF SENIOR ELECTIONS

Best Men of Class Required to Bring 1912 to a Successful Climax.

Senior Class elections are obviously the most important of the four years. For they mean that the men who hold office then lead the class through its last year as a class at the Institute, and at the same time they lead it through one of its most trying ordeals, the process of being graduated.

The president of the class, in addition to his regular duties as a class officer, is at the head of the Institute Committee, probably the most responsible position that an undergraduate Tech man can hold. The Institute Committee is the student governing body of the State, and through its president comes, in a large part, its policies and its success of its work. Thus it is easy to see that the man who is nominated for this position must have good judgment, and the power to look ahead and not jump at conclusions. He must be popular enough to hold his class together and keep things going smoothly.

The Secretary is, as a rule, chosen for the first Graduate Secretary, and for that reason alone the Boston man has the call over all others. The man chosen for this position must have more or less time at his disposal, for he has a great deal of work to do, but it is pleasant work, for it is through him that the class keeps in touch with the Institute after graduation.

The position of Treasurer is one of great responsibility and requires a man who has a good level business head so that he may get the class through to the end of the year with a clean financial record.

The men who are put on the Athletic Association should be among the best athletes in the class, for they will in all probability be the representatives from the Association to the Advisory Council. They should feel that this is a reward for their work of the past four years, that it is a position of honor and responsibility to have the affairs of the Institute Athletics in their hands.

In like manner the class needs men on the Institute Committee who will be able to carry the double responsibility of that and the Class Executive Committee as well. They must be clear-thinking and far-sighted men who will act for the good of Technology for all time, always remembering that every move on their part is setting a precedent for the good or the bad that will be followed by the later generations of Tech men.

To elect men for the above offices requires great deliberations as to the man best fitted for that or the one best fitted for this position, then conscientious voting, and finally the class spirit to stand behind those elected and help them bring the successful career of 1912 to a more successful finish.

## FRESHMAN FOOTBALL.

Yesterday afternoon it was too wet for any kind of a football game, and so the Freshmen had to postpone their battle with the Rindge Manual Training School. It was very unfortunate for the 1915 men as they needed the chance to try out their new men against a strong opponent.

It is just as necessary for the men to show up this afternoon as it was yesterday, and all those who want to get on that trip to Bridgewater on Saturday must come around without

(Continued on page 2, column 2)

## TECH SHOW OPENS WITH DINNER

November 11 Provisional Date of Kommers Dinner—Big Time.

Once again, co-ordinate with the opening of the Institute every year, comes the beginning of the activities connected with a new Tech Show. Tech Show is one of the foremost activities at the Institute, so that the man who is casting about for some diversion as he should—to round out his career at the Institute—will do well to give Tech Show his serious consideration.

Tech Show creates the active interest of a great many students, involves a large amount of money, and its performances attract widespread interest among the faculty, student body and the Boston public generally. Upon Tech Show devolves the task of maintaining and raising, if possible, a certain standard that has been established. To fulfill this mission it is essential that Tech Show, 1912, have the active support of many men, and the interest of all.

For the promotion of this interest the Show will give its annual Kommers dinner. The provisional date selected this year is November 11. The certainty of this date is not absolute, but it is certain that the dinner will be held sometime during the week immediately following Field Day. Further notice of the Kommers dinner will appear in THE TECH, and it is hoped that a large number of men will decide to attend this important affair.

At this dinner the managers of the various departments will give an idea of just what the Show is now, its purposes and what it offers to the Institute man.

There will also be speeches by different members of the faculty who have been particularly interested in the progress of Tech Show. The evening has heretofore been a great success and there is every reason to believe that the same will be the case with the premiere of Tech Show, 1912.

Anticipating the Kommers dinner, there is given here a hasty review of the Show for the entering class, 1915. In the Fall of 1898 the Athletic Association was in need of money, and it was suggested that a minstrel show be given to raise the necessary funds. This plan grew, in fact, out of this original idea, and there was held the next year the first Tech Show in the Hollis Street Theatre.

The Show has continued to grow until at the present time a complete musical comedy is given every year during Junior Week. Besides this production in Boston performances have also been held at Northampton, Worcester, Providence and Malden. The book, score and poster for each show are the product of Technology undergraduates. It is hoped that a number of books are already under way.

As the Show itself has grown, the management has grown with it. At present there is a general manager, usually a Senior; a manager at the head of each of the three departments—Business, Stage and Publicity—and two assistants in each department complete the management. Three of these six assistants will have to be drawn from the Freshman class, and it is therefore hoped that a plentiful supply of Freshmen will respond when the competitions are announced.

So Prexie is coming home from Europe at last. We won't find much of any change in the way things go, for there will be a nine o'clock class to go to just the same.

## C. E. SOCIETY FIRST ON FIELD

First Meeting Tomorrow Evening—Desmond Fitzgerald To Speak.

The Civil Engineering Society appears to be the first professional society on the job. With the usual progressiveness of the followers of the transit and rod, the officers of the Civil Engineering Society have made plans for a mammoth meeting tomorrow evening, on which occasion the new year will be ushered in with a rush.

A special invitation has been extended to all Sophomores who are members of the civil and sanitary engineering courses to come to this first meeting and make themselves at home. These men are now eligible for membership, and the program committee announces that no efforts will be spared to make this year's meetings of interest and profit to the younger members of the department.

Though the society is the first to start operations, tomorrow evening's meeting will be in no sense a hurry-up affair. The program committee has been asked to address the men with the foremost engineer on its list of speakers for the season, Mr. Desmond Fitzgerald of Boston, who is recognized throughout the country as an authority on water works engineering. Mr. Fitzgerald was in his early days in the profession chief engineer of the Boston & Albany Railroad. He was later engineer in charge of water works extension under the city engineer of Boston. When this work was taken over by the Metropolitan Water and Sewerage Board Mr. Fitzgerald was retained to care for it as a member of the board, from which he recently retired on the completion of the Sudbury River water system. He is a past president of the American Society of Civil Engineers.

Mr. Fitzgerald is a member of the Corporation of the Institute, and has always shown great interest in the welfare of the school. Aside from his engineering ability he has a reputation as an art critic; he is an unusually broad-minded man and a keen talker. He has a collection of wonderful lantern slides on a wide variety of subjects, which are rivaled only by those of Lyman Underwood, and it is very probable that his talk tomorrow evening will be illustrated from this collection.

The meeting is scheduled for the Union at 7:45 o'clock. Refreshments will be served to all, but there will be no charge for this first meeting.

## CALENDAR.

Thursday, October 5, 1911.

9.00—Tennis Tournament entries due.

1.30—T. C. A. Meeting—Union—Rev. A. A. Stockdale.

3.00—Track Practice at the Field.

3.00—Track Practice at the Field.

4.15—Class Relay Teams at the Field.

4.15—Class Tug-of-War Teams at the Gym.

4.15—1914 Football at the Oval.

4.30—1915 Football at the Field.

Friday, October 6, 1911.

4.00—Gym Team Meeting at the Gym.

4.15—Orchestra Rehearsal at the Union.

4.15—Track Practice at the Field.

4.15—Class Relay Teams at the Field.

4.15—Class Tug-of-War Teams at the Gym.

4.15—1914 Football at the Oval.

4.30—1915 Football at the Field.

7.45—C. E. Society Smoker at the Union.

# THE TECH

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THURSDAY, OCT. 5, 1911.

The Civil Engineering Society, which proved to be the leader in amount and quality of entertainments and meetings last year, bid fair to hold its place at the head of the other professional societies in regard to the amount of interest taken, as they announce the date of their first meeting as tomorrow evening, when Desmond Fitzgerald, a well known hydraulic engineer of this city, will be the speaker. The committee announces that Mr. Fitzgerald is one of the strongest and best speakers that they have arranged to have speak this year. All members of the society should not fail to take advantage of this chance to broaden their learning, and a chance will be given all who are eligible, but not members, to join.

Last year the society was very active, instituting the idea of having the Combined Societies Dinner, Faculty Story Telling Contest, Moving Picture Shows, etc. The society has an efficient, progressive program committee, and cannot fail to maintain its name for originality and ingenuity in its efforts to entertain the members.

In connection with the above, quoting from an editorial which recently appeared in the Christian Science Monitor, "The growth of attendance at the Massachusetts Institute of Technology is in direct response to the growing demand for young men who know how to do some very necessary things very well."

One of the greatest chances that the men at the Institute get to learn how to do these very necessary things very well is that given them to attend these lectures given by men scientifically trained who really are doing very necessary things in the world and doing them well, too. In saying this we do not wish to depreciate the value obtained from the theoretical knowledge of the class room, but rather to emphasize the fact that a purely theoretical man going out into the hard and busy world is like the proverbial ship without a rudder.

The world expects a great deal of the Technology man, and let us therefore improve every opportunity given us, that we may fulfill its greatest expectations.

### TECH MAN ASSISTANT PROFESSOR AT BROWN

Mr. Hardy Cross, a graduate of the Institute class of 1908, goes to Brown University as assistant professor of civil engineering. Mr. Cross came to Tech a graduate of Hampden Sidney College, Virginia. After taking his degree as a civil engineer he became associated with the Missouri Pacific and New York Central Railroads, which work he is now leaving to take up teaching.

## IMPORTANT CHANGES MADE IN COURSE II

### Choice of Options to Be Made in Second Term—Other Changes.

An important change has been made in Course II with regard to Options. Formerly each fourth year man chose one of the five Options offered by the department and pursued that line throughout the year. The present plan is to give all the men some knowledge of each Option during the first term. Several lectures are given on the subjects of power house, factory, or machine shop construction. These lectures are supplemented with instruction as to the use of concrete and brick, and to the cost of the two materials. Thus sufficient insight into problems of this sort is given the student to enable him to design these buildings and compute the cost of construction.

The student also attends lectures on general problems of heating and ventilation. Then follows a course on the propulsive machinery of the ship, with particular regard to problems of the relation of power to speed.

The rest of the term is devoted to the locomotive, its types, construction, etc.

It is in the second term instead of the first, as was the former plan, that the student selects his Option. Having gained a knowledge of the various branches of mechanical engineering, he is prepared to follow one line. Thus each man is given a broader knowledge of Course II and yet is fitted to enter into practical work on some particular subject.

For those students who have taken Heat Engineering there is a course of 15 lectures in the fourth year on Refrigeration, followed by an advanced course on the gas engine.

This year the fourth year drawing rooms have been relighted; each student is given his own lamp. These lamps are arranged to slide on wires strung across the room so that any part of the drawing can be lighted to suit the needs of the draughtsman. The Mechanical Engineering Society has been given desk room in this department also.

### COMMUNICATION.

The Editor of THE TECH:

Dear Sir:—

Already half the time for nominating men for Senior Class Officers has elapsed without a single nomination. Of course there will be several at the last minute, as there always are, but they should be coming in now. The lack of interest in these elections is discouraging as the time for balloting draws near.

Let me urge every Senior to think over his classmates and without delay get out a paper for some of them, getting ten men to sign it. Three men at least are called for on the ballot for each office, and they should be nominated by the class, not by the committee.

Respectfully,  
GERALD M. KEITH,  
Chairman 1912 Nom. Com.

(Continued from page 1)

fail. Don't hang back for lack of a suit; that is a matter that can be settled later. Besides, you must remember that the team is much better off when the men show up without a suit than they are with a suit and no man to put it on.

Manager Morrison has made some minor changes in the schedule, which really might be cut down to saying that the game with Commerce has been dropped. The open date on the 12th, Columbus Day, probably will not be filled, but another game should be substituted on the 28th. The schedule corrected to date is as follows:

October 7—Bridgewater Normal at Bridgewater.  
October 12—Open.  
October 18—Lowell Textile at Lowell.  
October 21—Woburn High at Woburn.  
October 25—Winchester High at Winchester.  
October 26—Open.  
November 3—Field Day, 1914 vs. 1915.

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Due from Banks	17,065,681.11
Exchanges for Clearing House	4,728,951.32
Cash	11,279,205.11
	<hr/>
	\$96,259,904.09

### LIABILITIES

Capital	\$ 3,500,000.00
Surplus and Undivided Profits	5,813,181.57
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**IN ATHLETIC RATING**

Compiled Athletic Statistics  
Places Cornell First,  
Yale Second.

A prominent newspaper has recently made a compilation of intercollegiate athletic statistics relative to the supremacy for the past year. Cornell receives first rating for the first time since it has entered intercollegiate athletics.

If each sport is considered as one point, the scores of the eight institutions are as follows: Cornell, 5; Yale, 4 1-2; Princeton, 2 1-2; Harvard, 2; Columbia, 1; Pennsylvania, 1; Haverford, 1, and the Navy, 1.

- Football—Harvard.
- Baseball—Princeton.
- Track—Cornell.
- Rowing—Cornell.
- Cross-Country—Cornell.
- Basketball—Columbia.
- Association Football—Haverford.
- Golf—Yale.
- Tennis—Yale and Princeton.
- Gymnastics—Yale.
- Lacrosse—Harvard.
- Hockey—Cornell.
- Fencing—Cornell.
- Swimming and water polo—Yale.
- Shooting—Yale.
- Wrestling—Princeton.

Yale and Pennsylvania are the only other universities that have ever won such honors in a single year. It may even be stated that Cornell's record for 1911 is superior to any that these institutions have made when its excellent stand in basketball is considered.

Harvard very evidently takes the lead in football, for although not defeating Yale, it outclassed every other team with which it played. Yale's strength lies in minor athletics, for during the past year there has been a noticeable falling off in football particularly. Columbia can easily claim first position in basketball, when it has held the championship every year but two since the organization of its team.

**INSTITUTE COMMITTEE**  
**HOLDS FIRST MEETING**

Change in Time of Sophomore Elections Made.

The first Institute Committee meeting for this school year was called to order at 4.20 yesterday afternoon. There were just a quorum present.

After some discussion in regard to the postponement of the Sophomore class elections until Field Day, in order that unfinished arrangements for that day be completed by those in office, in order that the new officers be not burdened with them, it was decided that Sophomore elections take place so that the results may be announced on or before Field Day.

It was also decided that hereafter the nominations for the two upper classes be opened on the Monday following the first day of school.

The next meeting of the committee will be held two weeks from yesterday, Wednesday, October 18, and every member must be present.

**1913 ELECTION COMMITTEE.**

At a meeting of the Executive Board of the class of 1913, held yesterday afternoon, a committee to take charge of the Junior class elections for this year was appointed. The following men comprise the committee: E. W. Taft, chairman; E. E. Corbett, A. J. Pastene, A. R. Atwater and E. L. Macdonald. The committee will immediately proceed to the final arrangements for the election of officers.

Nominations are now open, and if signed by ten men may be left at the Cage for the 1913 Election Committee. Nominations close at 4 P. M. Monday. It should be specially borne in mind that unless a man has paid his class dues his vote is worth no more than the paper on which it is written.

Wonder how the Dean learned to be such a good house breaker? He got out of the window at the Union the other night in almost record time. And equaled Houdini in getting the door open.

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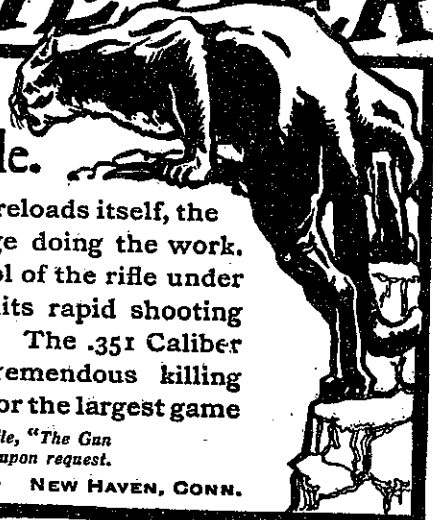
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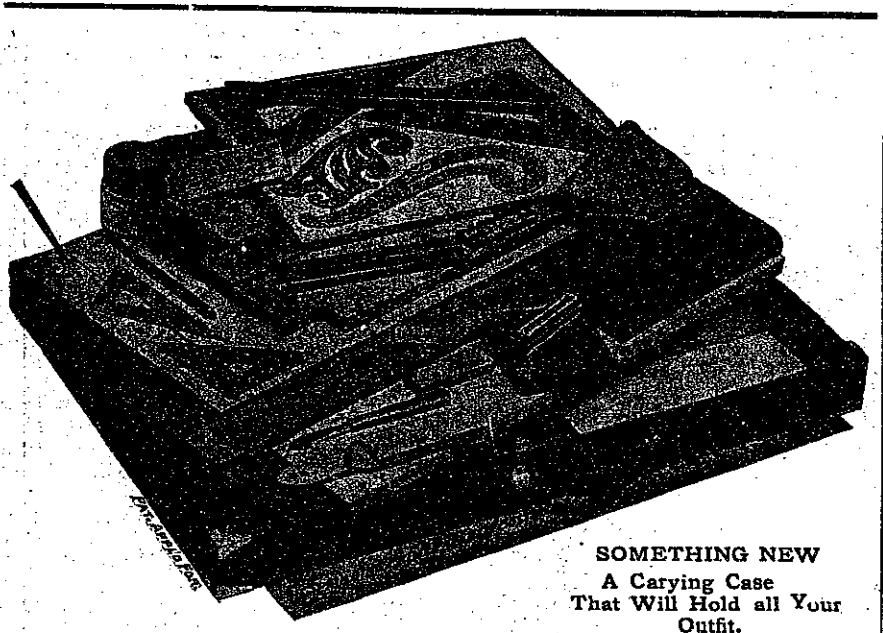
1913.  
 Nominations are now open for Class  
 Officers. Nominations signed by ten  
 men may be left at the Cage for 1913  
 Election Committee until 4 P. M. Mon-  
 day, October 9. S. E. Rogers, Acting  
 President.

**FACULTY NOTICES.**  
**Precision of Measurements.**  
 Sept. 30, 1911.  
 The regular course of lectures will  
 be repeated for College Students who  
 have the subject to make up, on  
 Wednesday and Friday afternoons at  
 4 o'clock, in Room 23, Walker.  
 The list of problems to be handed  
 in before December 1st by students  
 who were marked deficient, D, in this  
 subject is posted on the bulletin board  
 in Room 16, Walker.  
 H. M. GOODWIN.

Sept. 30, 1911.  
 Physical Laboratory Reports for the  
 year 1910-11 may be obtained by ap-  
 plying to the assistant in Room 16,  
 Walker. Reports remaining uncalled  
 for after October 15th will be confis-  
 cated.  
 H. M. GOODWIN.

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