

THE TECH

VOL. XXX. NO. 10

BOSTON, MASS., MONDAY, OCTOBER 17, 1910

PRICE TWO CENTS

"ALL WELL; EXPECT TO MAKE TRIP."

Walter Wellman in Balloon Off Sable Island; 300 Miles Out

Walter Wellman, the well-known balloonist, has finally commenced his long awaited trip across the Atlantic. With what success he will accomplish his attempted feat remains a matter of conjecture. Such a trip is hazardous in the extreme, and the men who are attempting it realize only too well what risks they must run before the voyage is completed.

The start of the great balloon "America" was long delayed, and the men interested had been the subject of much harsh criticism. So it was with no small amount of astonishment that the assembled crowd on the boardwalk of Atlantic City saw the huge silk bag taken out of the shed and the brave party climb aboard. In spite of the heavy fog which hung low that morning the balloon was gotten under way immediately. It headed first directly east, but after a short time the course was altered toward the north. The average speed seemed to be about 15 knots an hour.

Last night much alarm was felt by all men interested in the flight, because of the news that a severe storm was sweeping northward up the Atlantic. Efforts have been made to inform Wellman and his party of this fact, but up to six last evening no success had been met with. The balloon, if all goes well, will probably be some where off the coast of New Foundland today. From Cape Race the party will head eastwardly in the path of the trans-Atlantic liners. Should the balloon be in the direct path of the approaching storm grave doubts are felt as to its safety.

A very disgraceful state of affairs has come to light in many of the cities of the far West. At least a dozen towns have been found guilty of sending in false census reports to the United States Government. That such a state of affairs could exist was doubted for a long time by many people. Not that similar events have never happened before, but that the fraud has been so general in the last census, is what seems so surprising. (Continued on Page 2.)

CALENDAR.

Monday.

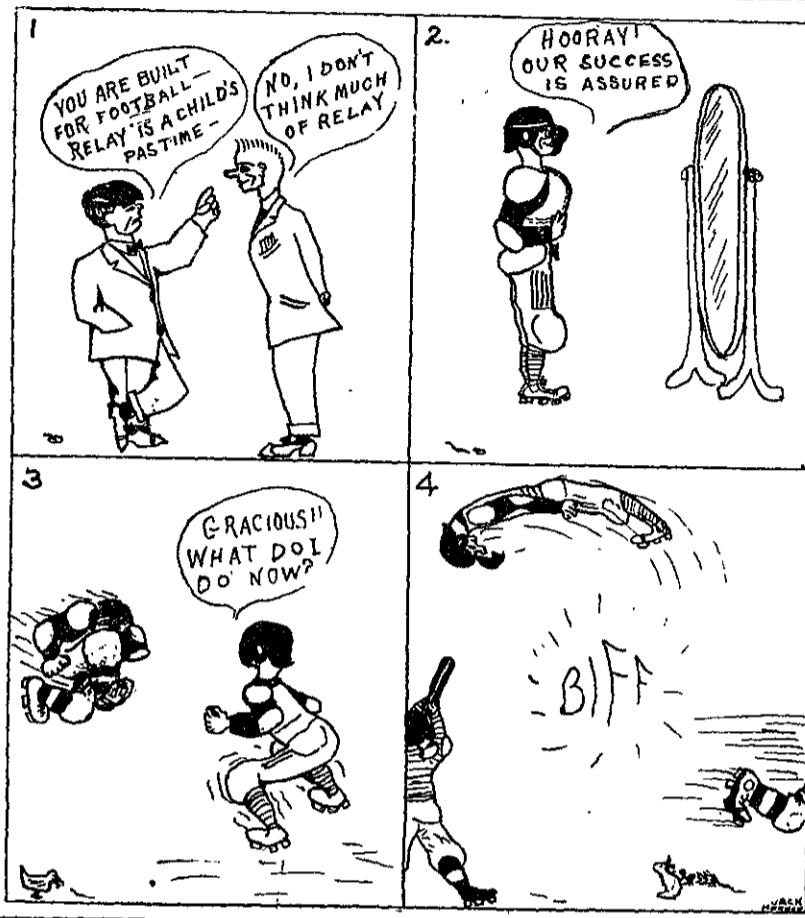
2.00—Arch. Society Business Meeting—42 P.
4.00—1914 Preliminary Relay Trials—Field.
4.00—Crew Practice.
4.00—1913 Football Practice—Oval.
4.00—1914 Football Practice—Field.

Tuesday.

1.00—Cosmopolitan Club Picture—Rogers Steps.
4.00—Crew Practice.
4.00—1913 Football Practice—Oval.
4.00—1914 Football Practice—Field.
4.00—Relay Practice—Field.

Wednesday.

4.00—Crew Practice.
4.00—1913 Football Practice—Oval.
4.00—1913 Relay Practice—Field.
4.00—1913 Tug-of-War Practice—Gym.
4.00—1914 Football Practice—Field.
4.00—1914 Relay Practice—Field.
4.00—1914 Tug-of-War Practice—Gym.
7.30—Chemical Society Meeting—Union.



PRELIMINARY 1914 RELAY TRIALS TODAY

Fourteen Men to be Retained Finals to be Held October 20

The preliminary trials for the 1914 relay team are to be held this afternoon at the Field. About twenty men have been working out in practice, and the time trials today will show them just how they stand. These trials are not final, and the team is not picked until after the 29th, when the final trials are pulled off. Each man is timed for the 220-yards, and the twelve fastest men are picked as the team, and the next two as substitutes.

The preliminary trials for the Sophomore relay will be held Thursday, October 20. There is considerable competition for the 1913 team, as many new candidates are out besides the men who ran on last year's team.

Besides the interest in the Field Day sports there is the added attraction of the Fall Handicap Inter-class Meet coming Saturday of this week. Last year this meet was won by 1912 with 46½ points; 1910 was a close second with 41, and 1911 and 1913 scored 26½ and 10 points respectively. This year 1912 seems to be again the logical choice for first place; 1913 and 1911 have most of the sprinters and middle distance men, but the Juniors are strong in the field events and the mile and two-mile runs; 1914 has not as yet shown much track material, with the exception of one or two individual stars.

The events are usually well-contested and the finishes close as the handicaps bring all the men down to the same basis. Coach Kanaly makes out the handicaps, and he knows exactly what each man is capable of doing.

TECHNOLOGY CLUB TO GIVE ENTERTAINMENT

Takes Place of Usual Walker Club Reception to College Men

The Technology Club will give an informal reception to new students from other colleges Tuesday, at 8 o'clock. President Maclaurin will give a talk. Mr. Lyman Underwood, President of the Technology Club and lecturer in the Department of Biology, will tell of a recent hunting trip in Maine, illustrating his talk with a series of new slides. Mr. Underwood's lectures are always unique and out of the ordinary, and this subject admits of great possibilities at his hands.

The professors in charge of the different courses who have met the new men in the capacity of advisors will be present, as will also members of the Walker Club, who are themselves students from other schools.

This year's registration shows that there are a hundred and eighty-five new students from other colleges in Technology, this being a larger number than has ever come in any one year heretofore.

This meeting, which will be held at the home of the club at 83 Newbury street, will give the newcomers a chance to meet each other and to know more about the environment at the Institute.

A cordial invitation is extended to all new students who have come to Tech from other colleges.

The office of the college dean at Yale is sending out return postals to the seniors to obtain their average yearly expenditure for use in the official dealings of the office.

Yale celebrated its 209th birthday last week.

C. E. TRIP TO LYNN GRADE CROSSINGS

Prof. Breed, Consulting Engineer, Explains Details of The Work

Thirty-five members of the Civil Engineering Society took the trip to Lynn Saturday to inspect the grade crossing abolition work there. Professor Breed, who is consulting engineer on the work for the city of Lynn, accompanied the men and explained the work, which is one of the largest undertakings of its kind ever attempted.

The first bridge constructed is at East Lynn. Here the track has been raised four feet, and the street cut down to give the necessary eighteen feet of clearance. The bridge is a through plate girder with a span of sixty feet, about seven-foot girders being used.

This bridge, with the concrete wall that had to be used on the property lines on either side of the crossing, cost over two hundred thousand dollars.

The next interesting crossing is one where the bridge has been raised four feet. Here a concrete wall has been built against the old retaining wall and has been tied in with steel bands.

The change to be made at Silsbee street has been the cause of much contention. The railroad company wanted to close this street and so built a subway for pedestrians, and the Special Commission upheld them. The city of Lynn objected to closing the street, the number of people crossing there daily being about 14,000. The Railroad Commission reversed the decision of the Special Commission, but the company finally got its request granted. A new story is to be added to the station and the track carried on twenty-five concrete arches to Central square.

The hardest problem of the undertaking is the raising of the track from Central square to Market street. A steel bridge is to span the square, the columns being open ones, on account of the great number of people using the crossing. One support of the bridge has to be skewed to allow the street cars to pass. The traffic between the points mentioned is to be handled temporarily by a one-track on a trestle built on one of the walls of the bridge. The other track is then to be laid permanently and the traffic shifted to it while the second track is provided for. The bridge at Market street is to be a steel one of two spans.

At Commercial street the sewer has to be lowered for a length of five hundred feet. This will make it discharge below high water level and at times the street will be flooded.

The cost of the entire work will be over a million and a half dollars, and the contract calls for its completion by June, 1911.

It is proposed at Stanford by the undergraduate body to erect two halls on the campus. The downstairs is planned for dining rooms and on the second floor, suites for rooming purposes. The object is to provide better accommodations for eating. The buildings will cost \$5,000 each and the earnings will amount to about twenty per cent. on the investment each year.

THE TECH

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BOSTON, MASS., OCTOBER 17, 1910.

"Six days without a drink; who wants to be a camel?" And we pity the poor camel as we pass the place at the Union where once stood within the memory of most of us a supply of refreshing ice water. The drinking cup is justly doomed and we must wait for the distribution of the new bubbling fountains. In the meantime, we bite our parched lips and wait in endless line for the bubbles in Rogers Building.

The ambitious musicians are gathering again and are planning an orchestral meeting next Tuesday. Once again we may hope to hear the merry tinkle of harp and reed deepened by the bass of the tom-tom, and again our hearts may swell with pride to think that these sweet strains represent Technology. All ye who have the talent, hide not your light under a bushel. Respond to the call of Orpheus and make the M. I. T. orchestra a success.

(Continued from Page 1.)

This "padding" has been so obvious in several towns that Director Durand has ordered an investigation. The city which has been chiefly guilty is Tacoma, Washington. The original enumeration showed a population of 116,268. The results of the second census have just been published and show that the true size of this town is 82,972, or a difference of 33,296 from the first report. In some districts of this city the reported population proved to be several times greater than it really was.

The method employed in enlarging the numbers were various, but it seems that the one most commonly used was the distribution of false census blanks to many citizens who had been already enumerated and who did not know the way in which the census is usually carried on.

CROSS COUNTRY RUN

H. G. Watkins 1912 Wins Run at Wakefield

In spite of the threatening sky, twenty-five men left the North Station Saturday for the third Hare and Hounds run of the season. Starting from the Wakefield Y. M. C. A., R. M. Ferry 1912, and K. Cartwright 1912, laid a good trail of about eight miles, and finished just as the rain commenced to fall. The fast squad did not get very wet, but the second bunch were treated to a cool shower long before they reached the finish. Nobody found the bags.

H. G. Watkins 1912, headed the first squad on the final race-in, with W. S. Davis 1910, and E. E. Ferry 1912, following in the order named. The finish of the second squad was unusually close—it was suggested that they wanted to get in out of the wet. G. R. Pardey 1913, and R. D. Bonner 1913, raced side by side, and it was just at the finish that Pardey pulled away a lead of a few inches.

On account of the Fall Handicap meet coming next Saturday, no Hare and Hounds run will be held on that date. The management urges all cross-country men to enter some event of this meet, and reminds them that liberal handicaps will be awarded. Entry books will be hung up at the Field, in the Gym and in the Union. All entries must be in on or before Thursday night.

Cross-Country men are also reminded that a table has been reserved in the Union for all track and cross-country candidates, and that all team candidates are expected to take their meals there.

THE CHEMICAL SOCIETY.

The first meeting of the Chemical Society is to be held in the Union on Wednesday evening, October 19, at 7.30 P. M. The speaker of the evening will be Professor Talbot, who will have for his subject "The Achievements of Chemistry in New England, and What They Stand For." It has always been a great pleasure to the society to have Dr. Talbot as speaker at the first meeting. His talk should prove very instructing to all men who are interested to know the part Chemistry is playing in the world's work.

It is particularly desired by the society that all members of the Sophomore class in Courses V, VII, VIII, X and XIV should come to this meeting, in order that they may become acquainted with the opportunities which the society provides in a professional and social way. The Executive Committee has in view a program for the year which will be very interesting and instructive, and hopes to have the active support of all the eligible men from the class of 1913.

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DR. MULLIKEN'S BOOK

Eight Years Untiring Work Results in Publication

During the past three months two of the three volumes on "The Identification of Pure Organic Compounds," by Dr. S. P. Mulliken of the Organic Chemistry Department, were issued. These volumes have been in process of compilation for the past eight years, and volume two is still withheld until a date which must be announced at some future time.

Volume one contains classified descriptions of about 2300 of the more important compounds of Carbon, with hydrogen and with hydrogen and oxygen. Volume two, which is still unfinished, is devoted to the identification of organic compounds of nitrogen. This volume is to be larger than volume one or three.

The last named is entitled "Identification of Commercial Dye-stuffs," and contains a method for the identification of pure organic compounds by synthetic and analytical procedure which is based on the physical properties and chemical reactions of the various substances treated. It contains classified original descriptions of nearly 1700 synthetic and natural dye-stuffs, as well as their difference with respect to many allied brands. Suggestions on the examination of dye-stuffs in mixtures and a color standard is also given.

This work of three volumes is, in fact, a general procedure in Organic Qualitative Analysis. It leads to the discovery of the proximate composition of any of the unknown organic substances whatever, whether there be simple compounds or mixtures. Many obstacles have arisen during the process of writing these volumes, but have all been overcome by the patient and careful research of the author. These volumes will not only be welcomed by the scientific schools, but also by the commercial world, for the latter has been clamoring for some time for just such a work as

this. The third volume will be of particular value to men interested in the commercialization of Chemistry.

Last June was published the "Outlines of Organic Chemistry," by Professor F. J. Moore. This book is designed especially for the use of the non-professional student, to whom a good general view of the subject is a necessity. It treats of the underlying principles in a connected manner, showing the types and relations between groups in such a manner that they may easily be remembered.

The main source of the material has been the lectures that the author has been giving for some years at the Institute.

There have been a number of changes in the schedule for men taking Course X. In the first term of the second year as it stands at present no French is required, and only two hours of German a week instead of three, as formerly. Additional courses in Precision of Measurements, Physics Laboratory and Inorganic Chemistry are required during the second term of the second year.

Dr. Frederick G. Keyes, an instructor last year, has been placed in charge of the Theoretical Chemistry Laboratory.

Professor Lewis of the Department of Physical Chemistry has charge of the Industrial Laboratory this year. This room is to be generally overhauled. More desks have been installed and extra room gained by the moving of the storeroom to the roof. This new storeroom is to be made of galvanized iron and will be constructed according to the plans set forth in the thesis of Mr. Drake at the American Sheet and Tin-plate Company. A large number of men have returned this year to do research work.

Professor Moore is at present giving a course of two lectures a week at Harvard, taking the place of Professor Torrey, who died early last summer.

Dr. Hall has translations of several books in press at present and has also, with Mr. Rolfe, published a translation of Cassiers "Beet Sugar Manufacture."

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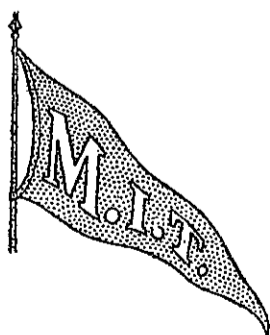
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FACULTY NOTICES.
Revised List of Hours for Sections in Political Economy.

Hour, Wed. 12; Room 42 R.; Instructor, Course VI, 1 and 2, Section Hour, Mon. 11.00; Room 42 R.; Instructor, Prof. Doten.
Course I, Section Hour, Tues. 9; Room 26 L.; Instructor, Prof. Doten.
Course II, Section Hour, Wed. 11; Room 26 L.; Instructor, Prof. Dewey.
Courses VI, 3, VIII and XIV, Section Hour, Wed. 12; Room 42 R.; Instructor, Prof. Dewey.
Courses III and IV, Section Hour, Thurs. 9; Room 26 L.; Instructor, Prof. Doten.
Course II, 2, Section Hour, Thurs. 10; Room 26 L.; Instructor, Prof. Doten.
Courses V, VII, X, XII, XIII, Section Hour, Fri. 9; Room 42 R.; Instructor, Prof. Doten.
Courses 1 2 and XI, Section Hour, Fri. 10; Room 42 R.; Instructor, Prof. Doten.

D. R. DEWEY.

Physical Laboratory Reports.

Students during their last year's Physical Laboratory Reports and note books may obtain them in Room 16, Walker, by calling any afternoon between 1 and 4 P. M. Note books and reports which are not claimed on or before October 15th will be disposed of.

Precision of Measurements.

The special course in Precision of Measurements offered for college students will be given on Tuesdays and Fridays at 4 P. M., in Room 23, Walker Building.

H. M. GOODWIN.

RADIATION, COURSE 832.

Those desiring to attend this course will please meet for the first exercise on Thursday, October 13th, at 4 P. M., in Room 23, Walker.

H. M. GOODWIN.

ART MUSEUM.

Free tickets of admission to the Museum of Arts for the year 1910-1911 will be issued to students upon application at the ticket office at the entrance to the Museum.

H. S. STORY,
Curator.

FOREIGN STUDENTS.

All foreign students at the Institute who desire to become members of the Cosmopolitan Club should leave their names at the Cage for Isaac Hausman, secretary, at once. Americans desiring to join should do likewise, but election to membership is not guaranteed.

BASKETBALL.—Owing to the non-return of A. T. Bennis, the position of basketball manager is now open. Any men wishing to try for the position will please communicate with T. B. Parker 1911, Captain.

1914.

A representative of the Horace Partridge Co. will be at the Gym on Oct. 17, from 3 to 5 o'clock, for the purpose of taking measurements and orders for Track and Gym Suits. A special discount will be given to all men ordering at that time.

F. KANALY.

1914.

Freshmen are not keeping examination appointments, and must come to Gym at once for new appointments (between 9 A. M. and 3 P. M.) as work will soon be completed.

F. KANALY.

British Empire.

All new students from any part of the British Empire are requested to leave their names at the Cage for THE CHAIRMAN, British Empire Association.

SLIDER-RULE lost. Return to G. W. True, 1911.

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