LARRY HART MARRIED

Mr. Larry C. Hart, one of the prominent members of the Class of 1913 who was married on August 9th to Miss Bertha A. Iversen of St. Louis, who are living in St. Louis, where Mr. Hart is associated in the Bag Co. Hart, who is so well known by many of the men at the Institute, was a member of the Beta Theta Pi fraternity in 1913 and was the assistant treasurer of last year's Tech Show. He graduated in Course XI.

THE TECH will be glad to meet some more new men any time that they will come around.

T. C. A. talks will begin next Thursday.

WEATHER

For Boston and vicinity: Rain, with light winds.

DRAWINGS POSTED FOR TENNIS TOURNAMENT

Large List of Entries in Singles—Seven Days To Play First Two Rounds.

The entries for the annual fall tennis tournament closed last evening with twenty-six entries in the singles and seven teams in the doubles. The drawings were made immediately and are posted on the bulletin board of the Athletic Association. This board is situated in Rogers, directly to the left of the entrance to the General Library.

This tournament is for the Tech tennis championship, and the winner in singles and winning team in doubles are awarded the ITY. The results of the play will also be a factor in the selection of the team next spring. The draw was a very even one and the contest for the honors promises to be close. Of the members of last year's team are entered, as well as some others who are expected to enter.

According to the rules of the tournament, the first two rounds of singles and the first round of doubles must be played during the first seven days of the weather conditions of yesterday. The weather was expected to bring three new balls for each team. The winner or winning team will keep the three unused balls for the next year.

Winners will be expected to post the score of the match. The key to the result of the play will be kept by the team in the office of the Information Bureau in Rogers.

(Continued on page 4.)

NEW TUG-OF-WAR ROPE

1916 and 1917 Teams Will Now Practice Every Night.

Until today the Freshman and Sophomore tug-of-war teams have been working with a big handicap, for there was only one rope to be had and so practice could be held only on alternate afternoons by each team. A new rope has been secured, so that today both teams will meet at the gym for practice at 4 o'clock.

Manager Stull of the 1916 team is not at all satisfied with the way men are turning out for the team and hopes that there will be more spirit shown in the future.

The men for the team are picked not by their size but by the spirit and enthusiasm which they show at practice. There are still many of last year's men who have not come out yet for the team. Stull wants to see all the members together with as many new men as possible at the gym this afternoon.

FIRST 1917 FOOTBALL GAME NEXT MONDAY

Hard Scrimage Yesterday—Still More Men Are Needed.

The 1917 Football Team went through a stiff scrimmage yesterday in preparation for their first game which will take place on the Columbus Day holiday, Oct. 12, with Southampton as opponent. The team is working very hard and showing all the enthusiasm which Coach Brien says that he needs a few more heavy men, especially line men, so that he can make the best line. There may be any intention of coming out should do so at once.

Besides the Southampton game, John-

ny O'Brien is trying to arrange dates with Lowell Tech, Newton High and possibly with Waltham High. A large crowd will probably witness Southampton game, as that will be the first opportunity to get a line on the Freshmen in action.

Among those who look good in the bunch of candidates now out are Wood, Harrington, Newst, Stone, Streit, Grunsmitt, Johnson, Bell, McCreedy, E. Sawyer, Farnsworth, Wood, Moore, Dunham, Hayden, Hunt, Thomas, Leeper, Whiting, and Powers.

TECH CANDIDATES

Eleven Men Answer Call—Editorial Contest Announced Soon.

Eleven new candidates for the news department of THE TECH were present at the meeting held yesterday at the lower office in the Union. They were C. A. Abet, C. M. Angell, H. M. Ayton, W. H. Bourn, C. M. Boursmer, H. D. Maritme, H. E. Lobell, A. Pierce, G. C. Rayward, R. Stevens and A. C. Sales. There are places for several more candidates, especially line men, so that the editorial department will have a number in the business office. For the editorial department a contest will be announced soon.

Last year's silver cup was awarded to P. W. McNell.

CALENDAR

Tuesday, October 7, 1913.

4.00—1917 Football Team—Field.

4.00—1917 Football Team—Field.

4.00—1916 Relay Team—Field.

5.00—1916 Football Team—Oval.

6.00—1916 Tug-of-War—Oval.

Wednesday, October 8, 1913.

4.30—Musical Clubs' Meeting—Union.

8.0—E. Society Reception—Union.

Thursday, October 9, 1913.

12.0—T. C. A. Tea—Union.

5.00—Junior Nomination Day—Cage.

Friday, October 10, 1913.

4.15—Institute Committee Meeting—Union.

Saturday, October 11, 1913.

5.00—Senior Nomination Day—Cage.

Afternoon: Race and Hounds Run—Hyde Park.
THE TECH


Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

MANAGING BOARD
B. W. Bigelow, '16, Secretary
E. H. Goddell, '15, Editor-in-Chief
F. L. Curtiss, '16, Assistant
G. T. Knowlton, '15, Advertising Manager
G. W. Prince, '15, Business Manager

NEWS BOARD
H. Rogers, '15, Chief News Editor
P. W. Burkhardt, '16, Assistant Editor
E. A. Weaver, '14, Instructor
A. W. Workman, '16

H. B. Davis, '16, Associate Editor
D. R. Carr, '16, Athletic Editor
G. A. Palmer, '15, Associate
J. W. Leavitt, '16, Associate Editor-in-Chief

W. C. Betz, '16, Assistant

NEWS STAFF
C. W. Hawes, '16, J. P. Gray, '16
G. P. Allen, '16, R. Mills, '16


Office Hours of General Manager: 8:30 to 9:00, Daily. Except Saturday.
Office Hours of Managing Editor: 1:00 to 2:00, Daily, 5:30 to 6:00, Saturday.
Office, 42 Trinity Place. Phone, Trinity 7913. Night Phone, Back Bay 5377.

Subscriptions, $2.00 per year, in advance.
Envelopes within the Boston Postal District and points in the United States, must be accompanied by postage at the rate of one cent a copy.

TUESDAY, OCTOBER 7, 1913.

With the announcement by the Electrical Engineering Society that a greater effort is to be made this year to interest Sophomores, the question of the professional societies is brought squarely before the school.

In a few days all the various courses will be organized and their society work will be in full swing. No more opportune time to join than the present could be found.

The functions of these societies is to present so far as possible the practical side of the profession, to give the men a chance to be in contact with the big men in their chosen line of work; to meet both them and their classmates who are entering this same line. In addition to these, they will take various trips, all of them interesting and many of great practical value.

In the past few years these societies have greatly increased both in number and influence. Many of them have enrollments in the hundreds and all of them get the enthusiastic support of their members. Perhaps in no better way can a man enlarge his personal acquaintance and at the same time greatly benefit the professional side of his career. These societies deserve the heartiest of support and are bound to get it.

Are you in or out?

With this issue THE TECH introduces a new phase of its news department in the form of short reviews of news items from the engineering and scientific world outside of the Institute, which we trust will prove of interest to our readers. We intend to frequent reference to the articles reviewed so that those desiring to do so may read the report more in full.

ENGINEERING AND SCIENTIFIC NOTES

At a recent meeting of the International Electrotechnical Commission held in Berlin an effort was made towards a much needed standardization of electrical terms when a list of some eighty terms and definitions was adopted. The commission has decided to add German and Spanish equivalent terms with their definitions to this list of terms, thereby bringing into closer cooperation with the German committee, for previously only the English and French languages were used in the definitions.

The Marconi Company of America has just made a contract with the Norwegian government for the erection of wireless stations in Norway to communicate with station in Massachusetts.

This will make another link in the chain of Marconi stations which are being planned to give wireless service throughout the entire world. The Marconi Company has purchased sites for the proposed stations along the Massachusetts coast and plans to erect the duplex system, by which radiograms can be received and sent at the same time. The operation of the system will be the same as is now employed at New Brunswick and at Belmar, New Jersey, through which messages are sent across the Atlantic to Wales.

This extension of policy of the Marconi Company includes the erection of high power stations on the Pacific coast, in Japan and the Philippine Islands. Construction is already under way in Japan, but as yet the company has been unable to get concessions from the government for the Philippine station. These stations will be followed in a short time by a system of wireless communication with Australia, New Zealand, India and until radiograms can be sent to and from all parts of the globe.

R. W. Phelps to Speak

Mr. Earle B. Phelps until recently a Professor in Research in Chemical Biology at the Institute will address the Massachusetts Association Board of Health.

Mr. Phelps is a graduate of the Institute. From 1899 he has been a member of the Class of 1899. He came to the Institute in 1903 as chemist and bacteriologist of the Sanitary Research Laboratory. He has now been called to take the important position of sanitary engineer for the U. S. Public Health Service.

It is to inspect the new Sewage and Disposal Plants of New Bedford that have been installed there to remedy the excessively bad conditions in the harbor owing to the ill disposal of sewage that the Association went to New Bedford.

DURING THE SUMMER

We moved into larger quarters Where our increased facilities for Printing, Mailing Typewriting Are at the particular service Of all Technology men.

THE RANGE COMPANY
Formerly the
Tech Typewriting Bureau
144 Stuart St. off Trinity Pl.

ONE OF OUR ORIGINAL IDEAS

CHAMBERLAIN

MEN'S FURNISHINGS

TWO STORES

GET YOUR BOOKS AT

The Old Corner Book Store, Inc.
27 AND 29 BROMFIELD STREET
BOSTON

McMORROW

College Shoes for College Men
238 Washington Street, Boston, Mass.

OPPOSITE YOUNG'S HOTEL

THE SECRET OF GOOD BATTING

is similar to the secret of good business—it happens to some and just misses the others.

If there ever was a commercial home run it's Fatima, the Turkish-blend cigarette. The expert who conceived this blend was some batter! Fatima was first lined out in the college towns—the student body quickly proclaimed them winners. Today Fatima is the biggest selling cigarette in this country.

The secret is—pure, good, choice tobacco—no expense in the package—quality all in the smoke—"Twenty."

"Distinctively Individual"

Fatima

"20 for 15¢"

THE COUNTRY CLUB

CIGARETTES

27 AND 29 BROMFIELD STREET
BOSTON
Old Established Dining Room
33 SAINT BOTOHEL STREET
Mrs. G. O. Hanson, Prop.
21 Meal Ticket 81.50
14 Meal Ticket 81.50
7 Dinners 81.50
Sunday SALES 7 Lunches 81.50
Breakfast 30c. Luncheon 25c. Dinner 40c.

All Goods Required
by Students at
Maclachlan’s
502 Boylston Street

Drawing Instruments and Materials

Fountain Pens Text Books

THE CHOCOLATES
THAT ARE DIFFERENT
For Sale at the Union
SOMETHING NEW
CONTINUALLY

ATLANTIC PRINTING COMPANY

ENGRAVERS PRINTERS BOOKBINDERS

Phone 4960 Oxford
179 South St., Boston
Printers of “The Tech”

STUDENTS’ CAST-OFF CLOTHING
and other personal effects bought by
KEEZER
360 Columbus Ave
Near Dartmouth St.
Highest prices paid for name.
Trenton 915 Phone, or Call
Gym, evenings to 9 o’clock

Holland’s Dining Room
Holland’s
337 Columbus Ave.
Excellent board at reasonable prices
Home Cooking
21 Meals 81.50
14 Meals 81.00
7 Dinners 50c.

POSITION WANTED—Experienced housekeeper desires position with fraternity; best of references furnished. Apply to Mrs. M. A. G. in care THE TECH.

FOUND—A paper referring to the Virginia Military Institute was picked up on the street and is now at the Bursar’s office, where owner can obtain same.

FOUND—A signet ring October 2d, corner of Dartmouth and Boylston streets. Owner may have same by proving ownership. Apply at THE TECH office.

CIVIL ENGINEERS TO ELECT NEW MEMBERS
Prof. C. B. Breed To Speak on The Abolishment of the Grade Crossings at Lynn.

This year the Civil Engineering Society plans to hold a meeting every three weeks and to have a trip to some large work at least every four weeks. At these meetings it is expected to have some very interesting speakers.

The first meeting will be held on Friday, October 17, at 8 P. M. in the Union. At this meeting Prof. Charles B. Breed of the Civil Engineering Dept. will speak on the subject “Abolishment of Grade Crossings at Lynn.” He has been in charge of this well-known engineering feat for several years and will be able to give a very interesting talk on the different phases of it. He has a collection of lantern slides which he will use in connection with his talk.

The first meeting will be open to all men who are eligible to join the society. All men of the upper three classes of the Courses I XI and IV, Option a are eligible and it is hoped that a large number of men will turn out. Refreshments will be served.

Twenty new men will be elected to membership in the society at this meeting, and all men who wish to become members must have their names at the Cage addressed to the secretary, J. W. Hinns ’14, before October 17, the date set for the first meeting of the society.

THE SMELTING INDUSTRY
The value of the metals produced from domestic ores, foreign ores, matte, and unrefined bullion mined and smelted or refined in the United States in 1912, according to a report by J. P. Dunlop of the United States Geological Survey, was $955,708,638, compared with $876,277,716 in 1911. The figures are approximate, as the value given for aluminum is that for consumption and includes the imported metal in addition to the production from domestic ores.

The quantity and value of the metals are given for both domestic and foreign sources, but it is necessary to add the value of the secondary metals recovered in 1912 in order to show the vast extent of the refiner and smelting industry in the United States. As the value of these secondary metals, which is exclusive of gold, silver, platinum, iron and aluminum, amounted to over $77,000,000 in 1912, it is reasonable to assume that the total value of the metals derived from foreign and domestic sources and smelting and refineries in the United States amounted to over $1,100,000,000. A portion of the increased value in 1912 was due to the much higher average prices for silver, copper, and zinc, but the production of all metals other than gold and antimonial lead increased in 1912.

The quantities of the various metals, which are given in other Survey reports in long tons for pig iron, ferro-alloys, and aluminum, in Troy ounces for the precious metals, and in troy pounds for gold and silver, are all stated in short tons in the table given in Mr. Dunlop’s report.

CROSS-COUNTRY WORK
Today the Cross-Country men who are taking the preliminary training will meet at the Gym at 4:15, the others, however, will meet at the Field. The work is progressing slowly and Capt. Nye of the Cross-Country Team says that there seems to be a lack of enthusiasm among the men, and hopes that in the future much more interest will be shown.

MACULAR PARKER COMPANY
400 Washington Street
Boston

Manufacture in workshops on the premises and offer for immediate use
Clothes for College Men
Attention is called to an importation from London of Overcoats in ultra styles—very desirable—made specially to our order.

MACULAR PARKER COMPANY
400 Washington Street
ATTRACTIONS

AT THE

THEATRES

TREMONT THEATRE
ZIEGFELD FOLLIES

HOLLIS ST. THEATRE
Evgs. & Mats. Wed. & Sat. at 2.
JULIA SANDERSON -- THE

The Sunshine Girl

PARK THEATRE
Evgs. 8.10. Mats. Wed. & Sat. at 2.

THE CONSPIRACY
Prices 1.50, 1.00, 75c, 50c, 25c

BOSTON THEATRE
JOSEPH AND HIS BRETHREN
Prices 25c to $1.50

COLONIAL THEATRE
GEO. M. COHAN --

Broadway Jones

CASTLE SQ. THEATRE
Daily at 2.10 and 8.10
A TEMPERANCE TOWN
Prices 15c, 25c, 50c, 75c

SHUBERT THEATRE
Evgs. 8. Mats. Wed. & Sat. at 2
THE PURPLE ROAD

PLYMOUTH THEATRE
Evgs. 9.15. Mats. Thurs. & Sat. 2.35
MR. GEORGE ARLISS -- IN

Disraeli

TECH MAN ELECTED TO T. C. A. ADVISORY BOARD
Mr. F. L. Locke, '90, to Fill Vacancy Caused by Resignation of Mr. A. F. Bemis.

Mr. Frank L. Locke, President of the Boston Young Men's Christian Union, has been elected to the Advisory Board of the Technology Christian Association. Mr. Locke will take the place of Mr. A. Paywell Bemis, who resigned from the board a short time ago. Mr. Locke is a Technology man, having graduated from the Institute with the Class of '90 and was a member of Course I.

The election of Mr. Locke to the Advisory Board will be heartily welcomed and because of his experience with the Young Men's Christian Union he will undoubtedly make a very valuable addition to the board.

TEENIS DRAWINGS
(Continued from page 1)
The pairing for the singles are: C. E. Shedd '16 vs. hvy; R. P. Ware '17 vs. bby; R. H. White '16 vs. bby; F. L. Hartkast vs. H. Roseler '17; S. B. McDaniel '15 vs. H. R. Stewart '16; L. Libbey '17 vs. D. Kendall '17; H. V. Fay '14 vs. T. R. Johnston '15; W. A. Strongman '17 vs. G. M. Keith '14; G. H. Goss '16 vs. D. Woodbridge '16; G. R. Stevens '17 vs. R. A. Warren '17; M. F. Curtis '16 vs. L. Stone '16; W. Futterer '17 vs. M. E. Newman '17; J. B. Carr '16 vs. J. Richardson '17; G. W. Blakely '14 vs. hvy; W. S. Stewart '16 vs. hvy; A. K. Stewart '16 vs. bby.

The draw in doubles is as follows: Curtis and Gauss vs. Kingbury and Roy; Hurlburt and Fay vs. Nunnels and Rynell; McDaniel and White vs. Blakely and Carr; H. R. Stewart and partner vs. hvy.

FOUND ARTICLES
Articles enumerated below have been found. Owners of same may claim them at office of the Supt. Bldgs. & Power.

1 Note Book.
2 New Pencil Case.
3 Leather Bag.
4 Roll of Paper.
5 Fountain Pen.
6 Skein of Wool.
7 Bread Crumb Case.
8 medicine Bottle.
9 Class Pin.

Something ought to be done with that new tag-on ear rope on the job.

Have you yet that program straightened out yet?

Do you want to buy a Drill Suit now (7) last year?

FACULTY NOTICES
Second Year--Course VIII
The exercises in "Aesthetics" (828) will begin on Tuesday, October 7, in Room 22 Walker at 10 o'clock. Walter Humphreys, Registrar.

POLARIZED LIGHT (864)
The lectures will begin on Tuesday, October 7, at 4 o'clock, Room 22 Walker.

They are open to students in third and fourth years.

Wadsworth, Howland & Co.
Incorporated
222 CLARENDON ST.
Also
84 WASHINGTON ST.

PRESTON'S COFFEE HOUSE
OPEN ALL NIGHT
1036 Boylston St.
Boston
Telephone 21717 B. B.

The Original
TECH BARBER SHOP
585 Boylston Street
Copley Square
Bootblack Second Floor

CLASS PIPES
Made to order at Schryver's Sagar Store
44 School Street, Boston
We carry the
B. B. B., S. S. S., G. B. D., etc. pipes in all styles
10 per cent discount to Tech students

Don't forget the address! We make a special effort to win the esteem of Tech men.

Copley Square Pharmacy
B. B. B., 119 Newbury St.

HUNTINGTON AVENUE, BOSTON

CLASS & 'PATR' PIPES
Made to Order

CUBAN CIGAR STORE
993 Boylston Street

RICHARDS SCHOOL OF DANCING
30 Huntington Avenue

Huntington Class Monday 9:30 A. M.
American Class Tuesday 9:30 A. M.
Private lessons by appointment only.
Telephone B. B. 6140

THE TECH UNION BARBER SHOP
Located at the
HOTEL WESTMINSTER
Handy to the students. Up-to-date, fashionable hair cutting by skilled barbers. The best soap and ampoules prepared especially for the back shop. Reasonable rates. For half a century we have been serving yourself by giving us a call.

THE TECH UNION BARBER SHOP

TENNIS DRAWINGS

TENNIS DRAWINGS

BOSTON THEATRE

THE CONSPIRACY

CASTLE SQ. THEATRE
Daily at 2.10 and 8.10
A TEMPERANCE TOWN
Prices 15c, 25c, 50c, 75c

SHUBERT THEATRE
Evgs. 8. Mats. Wed. & Sat. at 2
THE PURPLE ROAD

PLYMOUTH THEATRE
Evgs. 9.15. Mats. Thurs. & Sat. 2.35
MR. GEORGE ARLISS -- IN

Disraeli