

THE TECH

VOL. XXXIV. NO. 3.

BOSTON, MASS., FRIDAY, APRIL 3, 1914.

PRICE TWO CENTS

LAST CHANCE TO SIGN FOR SENIOR PORTFOLIO

Sign Up Books To Be Called In Monday—Course IV Theses Wanted.

"Seniors! You should be interested in the best investment of your college career. Do you want something that will pay you back more than double, something that you will, in the future more than now, thank yourself for having obtained, something that will be a source of constant pleasure to you in the years to come? If you desire all this, you should take this last opportunity which is now offered you to get a Senior Portfolio. This book is affectionately termed by the alumni "that memorable volume," and is cherished by them as the dearest of their possessions. It is the best investment a man can make, for it will draw interest all throughout his life. The possessor receives dividends every time he opens the book, for he thrills with pleasure at the sight of his comrades contained therein. These books are selling at five dollars a volume, two dollars to be deposited, the rest to be paid upon receipt of book."

(Continued on Page 4.)

WORCESTER VISITED

Chemists Inspect Steel Mill and Tannery.

Members of the Chemical Society who took the trip to Worcester Wednesday are loud in their praises of the treatment they received. At both of the plants visited, the officials in charge did everything in their power to make the visit of the party both a pleasant and an enjoyable one.

The party left Boston at 8.34 A. M. and on arrival at Worcester went at once to the plant of the American Steel and Wire Co. Here they were shown both the acid and basic open hearth steel processes, the rolling of the ingots, and the drawing and tempering of the wire. The entire morning was spent in this large plant, and the men were glad to adjourn to lunch and get the chance to rest and get the noise of the rolling mill out of their ears.

The afternoon was spent in the immense tannery of the Gratton and Knight Leather Co., the manufacture being followed from the raw hide through the tanning, drying and curing, to the finished product in the form of belts, shoes, etc. Going through the tanning floors, some one characterized the tanning industry as "a horrible smell growing worse every fifty feet," but all voted the trip an extremely interesting and profitable one. The Alumnum Co. had to be omitted on account of time.

GOOD PROSPECTS FOR SOPHOMORE RELAY

Men Who Figured Prominently Last Fall Are in Training.

In preparation for the Spring meet which will be held on Friday of Junior week several members of the record breaking sophomore relay team are showing much of the form that was evident when they established the new time last fall. Captain Loomis, who will probably be

HARE AND HOUNDS RUN SATURDAY

Annual Spring Run and Freshman-Sophomore Race at Same Time.

Both the Spring run, which was postponed on account of bad weather, as well as the Freshman-Sophomore run will be held on Saturday over the Tech course. The two teams, the "Reds" and the "Grays" will be chosen on the way out. The scoring will be held separate, however, for

MR. RITCHIE SPEAKS AT PUBLIC LIBRARY

"Nooks and Corners of the Old Bay State" Full of Interest.

Before an extremely appreciative audience last night John Ritchie, Technology's publicity agent, gave a very interesting talk in the Public Library on "Nooks and Corners of the Old Bay State." The slogans now popular are "See America First" or "See New England First," but Mr. Ritchie wanted the audience to see Massachusetts first.

The speaker talked largely about the country west of the Connecticut River where many of the old New England customs still exist in their quaint manner undisturbed by the rush and bustle of the busy cities. The territory spoken about is an area about twenty miles square which the railroad has not yet touched. But one electric car line makes even an attempt to enter the territory, and that only for a very short distance. The old stage coaches, the country stores, the stage-coach driver, who is postmaster, hotel-keeper, and several other things combined, all exist.

The rolling hills and beautiful scenery were shown as well as many of the old landmarks of historic importance. Views of several of the villages showing the churches, the old taverns, the village blacksmith were characteristic of the slides. The elevation of the land in the country is as great as many of the popular health resorts in the White Mountains.

The talk was intermingled with references by Mr. Ritchie to many of the experiences that he had had when traveling through the country as he has done for the last twenty years. These proved very interesting as many of them brought out the peculiarities of the people living in the district.

CALENDAR

Friday, April 3, 1914.

4.00—1917 Baseball Practice, Tech Field.

4.00—Tech Show Orchestra Rehearsal, Union.

4.00—Tech Show Rehearsal, Union.
8.00—Mining Eng. Society, Union.

Saturday, April 4, 1914.

2.00—Tech Show Orchestra Rehearsal, Union.

2.00—Full Show Rehearsal, Union.

7.30—1917-1916 Wrestling, M. I. T. Gym.



SOPHOMORE RELAY TEAM

anchor man for the 1916 team again, has been in training all winter in spite of the adverse weather conditions of the past few weeks. Other men who have not dropped their training and are in condition are Reed and Dean, Lawrason and C. T. Guething. The latter made the second best time in the trials last fall and is sure to star for the team. With pleasant weather the week promises to show increased activity for the second year men.

MUSICAL CLUB MANAGER

At a meeting of the Musical Clubs' Executive Committee yesterday Henry Shepard was elected General Manager of the Clubs for the remainder of the year. The former manager, Ralph Salisbury, was forced to resign because of his illness. Mr. Shepard has been Asst. General Manager and Treasurer up to this time.

JUNIOR PROM NOTICE

Those who are going to the Junior Prom—some very important details concerning the obtaining of programs and paying the remainder of the subscriptions will be published in Saturday's issue of THE TECH.

the Freshmen and Sophomores so that both races will be decided at the one time.

(Continued on Page 3.)

INTERCLASS WRESTLING

Sophomore Team Has Been Picked—Freshman Tryouts Today.

Yesterday the freshmen held elimination trials to pick the wrestling team for the Freshman-Sophomore meet tomorrow, but as there are a large number of candidates, it was impossible to give all the men a chance to tryout. The trials will be continued today and the team picked tonight. The sophomores have already picked the men who will compete with the freshmen. The men are as follows: 115-pound class, Connelly; 125-pound class, Levy; 135-pound class, Burnap and Berger; 145-pound class, Bousquet and Lawrence; 158-pound class, Blakeney and Spear; Heavyweight class, McSweeney. Burnap, Bousquet and McSweeney are the best men on the sophomore team and Manager Morse is confident that these three at least will win a fall. In scoring the meet a fall will count as two and a decision as one.

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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

MANAGING BOARD

S. H. Taylor, '14.....General Manager
E. A. Weaver, '15.....Editor-in-Chief
L. E. Armstrong, '15.....Managing Editor
C. W. Lacy, '15.....Advertising Manager
H. Rogers, '15.....Circulation Manager
A. E. B. Hall, '15.....Treasurer

NEWS BOARD

C. A. Sandburg, '14.....Assignment Editor
W. T. Kneszner, '16.....Institute Editor
E. Millis, '16.....Assistant
G. W. Wyman, '16.....Societies Editor
E. F. Howins, '16.....Assistant
L. E. Best, '15.....Athletic Editor
H. P. Gray, '16.....Assistant
H. W. Lamson, '15.....Science Notes

NEWS STAFF

B. N. Stimets, '16 H. E. Lobdell, '17
J. M. DeBell, '17

BUSINESS STAFF

R. Alfaro, '16 S. Keith, '16
F. S. Conaty, '17 H. P. Claussen, '16

Office, 42 Trinity Place.
Phone—Back Bay 5527 or 2130.
Night Phone—Back Bay 5527.

OFFICE HOURS

(Daily except Saturday)
General Manager.....5.30 to 6.00 P. M.
Managing Editor.....5.00 to 6.00 P. M.
Advertising Manager...1.30 to 2.00 P. M.
Treasurer1.30 to 2.00 P. M.

Subscriptions, \$2.00 per year, in advance. Single copies, 2 cents.
Subscriptions within the Boston Postal District, and outside of the United States, must be accompanied by postage at the rate of one cent a copy.

FRIDAY, APRIL 3, 1914.

An editorial in the Chicago Evening Post urges the establishment of University Presses in the large Eastern Colleges, such as those long established at our Western Schools. The University of Chicago Press has proven a great success; likewise the Ann Arbor Press of The University of Michigan.

The University Press of Harvard University completed a most successful year, while that at Yale has been so well appreciated that the Society of "Scroll and Key" recently endowed it to the extent of ten thousand dollars.

Speaking of the benefits derived from the Yale University Press, Mr. George P. Day, treasurer of Yale says, "Even if one looks skeptically at the larger results accomplished and in a narrow way asks, 'What has it done for Yale?' he is forced to admit that it has advertised the university more favorably and more widely than it could have been advertised otherwise for double or treble the expenditure of money; that it has made it easier for the University to attract teachers of distinction to its service and to retain them in its service; that it has made it possible for the departments of the university to keep more closely in touch with the men in other institutions who are doing the best work in given lines, a consideration of value in that it should enable the university to choose most wisely when calling new teachers; that it has in many cases at least, from royalties and moneys paid authors, distinctly helped to improve the condition of underpaid pro-

ENGINEERING AND SCIENTIFIC NOTES

Denatured Alcohol.

Germany now uses between forty and fifty million gallons of denatured alcohol a year, of which over thirty million gallons are sold to the general public for burning purposes. The importance of this fuel in Germany may be appreciated when it is considered that France uses about eighteen million gallons, the United States about ten million gallons, and the United Kingdom only four million gallons, according to a monograph by Charles A. Crampton, commercial agent of the Department of Commerce, recently issued by the Bureau of Foreign and Domestic Commerce. Denatured alcohol is not only gaining in favor for general burning purposes, but a determined effort is being made to find a way of using it as a motor fuel in place of the high-priced gasoline. All the recent developments are dealt with in the new monograph, which is entitled "Production and Use of Denatured Alcohol in Principal Countries" (Special Agents Series No. 77.) Copies at five cents each may be had from the Superintendent of Documents, Government Printing Office, Washington, D. C.

And the Rains Decended.

As a comment on prevalent rainfall of the last few days the following extract from the Geological Survey might prove interesting:

"According to an estimate by Sir John Murray, the total annual rainfall upon all the land of the globe amounts to 29,347.4 cubic miles, and of this quantity 6,524 cubic miles drains off through rivers to the sea. A cubic mile of river water weighs, approximately, 4,205,650,000 tons, and carries in solution, on the average, about 420,000 tons of foreign matter. In all, about 2,735,000,000 tons of solid substances are thus carried annually to the ocean."

Aged 100,000,000 Years.

One of the most widely discussed scientific questions of the day is the nature and origin of the five rare gases at present known to exist in the earth's atmosphere. Of these five gases most attention has been paid to helium, which is produced by the disintegration of radio-active

(Continued to Page 4.)

fessors and instructors; that it has won for still more proper recognition and often advancement; and finally that it has placed the proper emphasis on Yale as an educational institution not only in America but throughout the world."

Considering the tremendous amount of printing done for the Institute—its Catalogue, Concerning M. I. T., and the reports of officers, not to mention the innumerable sets of neostyle sheets, pamphlets, and textbooks of various kinds now done by outside firms at an exorbitant profit, it would seem that it might be desirable to establish something of this kind when we reach the new site.

STONE & WEBSTER

CHARLES A. STONE '88
RUSSELL ROBB, '88
ELIOT WADSWORTH, '91

EDWIN S. WEBSTER '88
HENRY G. BRADLEY '91
DWIGHT P. ROBINSON, '92

{JOHN W. HALLOWELL

Securities of Public Service Corporations

Under the Management of our Organizations

STONE & WEBSTER
Management Association

STONE & WEBSTER
Engineering Corporation

General Managers of
Public Service Corporations

Constructing Engineers

The American Brass Company

ANSONIA BRASS & COPPER BRANCH

ANSONIA, CONNECTICUT

Manufacturers of

Bare and Insulated Copper Wire and Cable
Drawn Copper Rods, Bars and Strips,
Brass Sheets, Rods, Wire and Tubes

SOLE MANUFACTURERS OF

"TOBIN BRONZE"

(Trade Mark Registered)

EIMER & AMEND

HEADQUARTERS

FOR

CHEMICALS, CHEMICAL
APPARATUS, MINERALS, ETC.

WE CARRY THE LARGEST STOCK OF
LABORATORY SUPPLIES IN THE U. S.

First Quality Supplies Only

Prompt Service

Our European connections are such that we are enabled to offer you the best services for duty free importations on scientific supplies at the lowest prices.

Analytical Balances and Weights

ONE OF OUR LEADING SPECIALTIES

EST'D - 1851
203-211-THIRD-AVE
NEW-YORK-CITY

The Senior Class Photographer

for M. I. T. '12, '13, '14 is

Charles Wesley Hearn

727 Boylston Street, Boston

Take Elevator at 729 Boylston St.

Special Rates to M. I. T. Students

VALUE OF CHARACTER TRAINING DISCUSSED

T. C. A. Speaker Shows Influence of One's Personality on Self and Others.

At the regular T. C. A. talk yesterday Mr. D. M. Claghorn, of the Boston Y. M. C. A. dealt with the importance of character to a man's success in life. He applied his remarks particularly to Tech men, saying that a strong character is of as much importance to the engineer as his technical training.

Mr. Claghorn defined character as "nature plus nurture," meaning that a man's personality is due partly to his natural characteristics and partly to what he does in the way of developing his qualities. The best man, he said, is the one who combines a strong character with a broad education. Such a one is bound to succeed.

Aside from the influence a man's character has upon his own future, the effect upon others is to be considered. Every young man, said the speaker, is looked up to by some one of his contemporaries. It is the duty of every one to see that he exercises a good influence over those who are affected by his character. Many men are led astray by the influence of some one who has a stronger personality than they. The person who exerts the bad influence is thus perhaps to blame for a life failure.

Mr. Claghorn then spoke of some of the ways in which a man's character is strengthened. Hard work is essential, but attention should also be paid to the necessary recreation and exercise. Habits of economy of money and health can only be acquired by a man with character and will. As these count largely in success, they should be cultivated in college. The man who has the character to refrain from things which impair his efficiency has a great advantage.

The speaker also mentioned the fact that Tech students are inclined to neglect the spiritual side of their nature. The spiritual part of the character is one on which it is hard for one man to criticize another, for all are full of faults, but the speaker said that though spiritual things are not often discussed between men, is no reason for neglecting them.

In conclusion, Mr. Claghorn urged Tech men to be strong men, to exercise good influences, and to do their part in accomplishing things. He told them not to spend their time dreaming, but to do things, not to blame their failure on circumstances, but to go ahead and achieve success.

COMMUNICATION.

Editor of THE TECH,
Dear Sir,

Judging by the conduct of some students who attend the Sophomore Physics lectures, it would seem that a few of those attending the Institute have not passed the high-school age. When something slightly out of the ordinary occurs in these lectures there is usually a loud laugh, which does not subside for some seconds. The lecture is thus punctuated with useless mirth, which is doubtless annoying to the professor, and is certainly so to one who is trying to follow the somewhat complicated questions which are under discussion.

It is also customary for the students to announce the end of the lecture to the professor by noisy movements, which drown all other sound.

If the professor is in the middle of an interesting explanation when he receives the summons to stop, it means that so much of the subject which remains, which would probably only occupy a minute or two at most, is lost.

Respectfully,
SOPHOMORE.

HARE AND HOUND RUN
(Continued From Page 1.)

The Freshman-Sophomore race is arousing considerable speculation on the part of track men as there has been no long distance run where the men have participated by which to judge them. The Sophomores have four good men that can be relied upon to come in among the first. Benson and Guething are of varsity material and made good last fall in the big intercollegiate run. Graff and Brown are two good runners that are sure of a place on the team although Brown has not been doing much work lately. Gray, Murdough and Dean of last year's team can be expected to come in fairly good. Dean has been doing short distance work and has not had any longer work than a mile or two this spring so is not in the best form for a cross country run.

The Freshmen have good men in Brock, Parker, Harrington and Litchfield who have been doing consistent work in the long distance this winter. Donnelly is not expected to run. Allen and Haviland will also probably be in the make-up of the team. These men with the exception of Parker, Brock and Litchfield have not done very much cross country work so the team strength is unknown.

The Spring Run is expected to bring out a large number of men in the upper classes. Captain L. Cook of the cross country team will run, also Nye, Wilkins and Lee of the Varsity men. Others who have been on the Hare and Hound runs are expected to turn out in full force.

C. F. HOVEY & CO.
Summer, Chauncy and Avon Sts., Boston, Mass.

Offer in their enlarged and completely equipped quarters unsurpassed facilities for the care and

Cold Storage of Furs

Each article is cleansed and thoroughly dressed, under the personal supervision of expert furriers, before being delivered.

CHARGES 3% OF THE VALUATION

We accept our customers' own valuation as the basis of estimating storage charges; the minimum charge is \$1.00 for goods not exceeding \$33.00 in value.

FURS CALLED FOR ON REQUEST

Old Colony Trust Company.

Capital \$6,000,000
Surplus \$8,000,000

Equipped to Furnish Every Banking Facility.

One account Commands the services of two centrally located banking offices

17 Court Street

52 Temple Place

Boston

McMORROW

-- College Shoes for College Men --

38 Washington St., Boston, Mass.

OPPOSITE THOMPSON'S SPA

GET YOUR BOOKS AT
The Old Corner Book Store, Inc.
27 AND 29 BROMFIELD STREET
BOSTON

AT THE
THEATRES

TREMONT THEATRE

Evgs. 8. Mat. Wed. & Sat. at 2
THE DUMMY

HOLLIS ST. THEATRE

Evgs. 8. Mat. Wed. & Sat. at 2
THE POOR LITTLE RICH GIRL

PARK THEATRE

Evgs. 8.10. Mats. Wed. & Sat. at 2
FANNY'S FIRST PLAY

COLONIAL THEATRE

Evgs. 8. Mat. Wed. & Sat. at 2
THE LITTLE CAFE

BOSTON THEATRE

Evgs. 8. Mat. Wed. & Sat. at 2
IN OLD KENTUCKY

Prices 25c to \$1.50.

PLYMOUTH THEATRE

Evgs. 8.15. Mats. Thurs. & Sat. 2.15
UNDER COVER

**ENGINEERING AND
SCIENTIFIC NOTES**

(Continued from Page 2.)

substances in the interior of the earth. In an interesting paper read before the French Academy of Science some striking discoveries were announced by Professor Moureu, who has been working in conjunction with M. Lepape. He states that firedamp constantly contains very large proportions of helium, together with other rare gases. Thus four thousand cubic yards of helium a year are emitted into the atmosphere from the mine of Frankenholtz, in Westphalia. Coal, however, only contains the very smallest quantities of radium and thorium, insufficient to explain the production of so much helium. It is beyond doubt, according to the professor, under these conditions that the helium which abounds in firedamp is principally fossilized helium, dating back to the carboniferous age—which would make it thus between fifty and one hundred million years old.

JUNIOR BASEBALL

At the meeting of the Junior Baseball men yesterday it was decided to play the Rindge Technical School at the Russel Field in Cambridge on Saturday. All of last year's men and all new men interested are to meet in the Union at 1.15 P. M. tomorrow. The battery will probably be Parsons, pitcher, and Stevens, catcher. On Tuesday the Junior team will meet the Sophomores at the Tech Field, so that men who do not get a chance to play Saturday may get a chance on Tuesday.

*Young Mens Hats
for Every Occasion*
COLLINS & FAIRBANKS COMPANY
383 WASHINGTON STREET - BOSTON

**UNITED STATES MINT
IS DRAINED DRY**

**Appalling Decrease of Quarters
Renders Quick Action
Necessary.**

"Twenty-five cent pieces are scarcer than the molars of the domestic fowl." Thus runs the report from the sub treasury, that inanimate Croesus that controls the follies of all Tech men. "What is this Spring Meat that is using up our silver disks so fast" asks the coin experts. "We have heard of the great demand for meat among the lower classes in the spring, but this exceeds all bounds."

"Cement topped and ivory domed Solomons" responds the Track Management by Herz oscillation, "the huge demand is not for Spring Meat but Spring Meet, and the disturbance is confined to absorbers and dispensers of knowledge, not to the lower classes. We are sorry if we have incommoded you, but really we see no reason why we should deny these wonderful animals that meet which is food for thought, for expression, and for edification, simply to satisfy the lust of Capital."

This is the present situation in a nutshell. The Track Team at last has its long deserved corner on quarters, on Junior Week house parties, on aspiring Chorines, perspiring Professors, and expiring Studes. The Officials have been selected and a choice aggregation they are. The starter is a gunman, the timers are "dy dx" men, the scorers are volt chasers and the inspectors squint through burettes for a living. The men who run the meet are every bit as important as the men who run in the meet, and each one is carefully selected, oak tanned and pliable.

The spirit of the affair is indomitable. Bud Thomas the chief cook, disclaiming all allegations of swelled headedness, lies in bed with the mumps and dictates the details of the campaign. Hurdlers are laid up with tango knee, planning their races on paper. Veterans are nursing corns brought on by the English walking variety, but between razor swipes they dream of the records to go. All is running merrily, all are working willingly, and when old Sol, the biggest gaslight trust of the age, pokes himself above the horizon on the morning of the seventeenth, the very thrill in the air will cause the stupid denizens of the money market to reiterate, "What is this Spring Meat anyway?"

1917 BALL PRACTICE

The Freshman Baseball squad will hold practice this afternoon at the Field at four, in preparation for the game tomorrow with Hyde Park. There was a scarcity of catchers at the last practice and it is hoped that more will come out today. Men must bring their own suits and bats as the Class has no money at the disposal of the team until the baseball assessment has been collected. The names of the men who will make the trip will be published in tomorrow's TECH.

GLEE CLUB REHEARSAL

Tonight at five o'clock sharp the Glee Club Coach will give his last rehearsal before the Chelsea Concert of April 8. This makes it imperative that every man be around promptly ready for work. The Coach says that the indifferent attitude of the men must be changed if successful concerts are to be put on, so it is necessary for the men to learn their music, be prompt at rehearsals, and throw themselves into the work.

SHOW ORCHESTRA

The Tech Show Orchestra will rehearse this afternoon at four. Tomorrow at two o'clock they are to work with the cast and chorus, and Sunday they are to practice alone on the music of the second act.

PORTFOLIO SIGN-UPS

(Continued From Page 1.)

The foregoing harangue was delivered by one of the enthusiastic Seniors having sign-up books for the Portfolio to a large group of his classmates yesterday noon in the Union. It created considerable excitement, for at the same time the announcement was made, that after Monday noon there would be no chances to sign up for Portfolios. The Portfolio Committee decided that, as the sales during the last week have been very small, it would be of no use to keep the sign-up books out after Monday noon. When the reports are all in the committee will notify the printer of the number desired and no more will be published.

The number of Portfolios is therefore to be limited, and only those men who sign up on or before Monday noon will be able to obtain copies.

Course IV men are requested to hand in at the Cage the titles of their theses, in order that they may be incorporated with the rest of the

The Original
TECH BARBER SHOP

585 Boylston Street
Copley Square

Boothblack Second Floor

RICHARDS SCHOOL OF DANCING

30 Huntington Avenue,
Huntington Chambers,
Tango Dances every Thursday
Dancing from 4 to 6
Teaching from 3.30 to 4
Private and class lessons
Telephone B. B. 6080

DO NOT FAIL

to see us about your
CLASS AND FRAT PIPES

We Carry The
BBB, GBD, Comoy, SSS, etc.

Pipes in All Styles

Schryver's Segar Store

44 School Street, Boston

STUDENTS' CAST-OFF CLOTHING
and other personal effects bought by

KEEZER

360 Columbus Avenue

Near Dartmouth St.

Highest prices paid for same
Tremont 916 Phone., Write or Call
Open Evenings to 9 o'clock

THE
Barber Shops
AT THE
Copley Plaza
Boston, Mass.
AND THE
Plaza
New York

Are Under Management of
Carl A. Zahn

CLASSIFIED ADS.

TO RENT—Double and single rooms for Tech students. House entirely furnished, continuous hot water. 154 Huntington Ave.

statistics. The statistic blanks are nearly all in now.

There will be a meeting of all men holding sign-up books on Monday. The committee announces that all books will be called in then and all money for sign-ups must be paid at that time. Those who still desire to sign up, may do so up to Monday noon with the following men: Duffield, Crowell, Stone, Waitt, Morse, Salver, Fox, Barrett, Fiske, Hines, Hiller, Morrill, Peaslee, Salisbury, Dawson, Treat, Todt, Wells, White, and Wilkins.