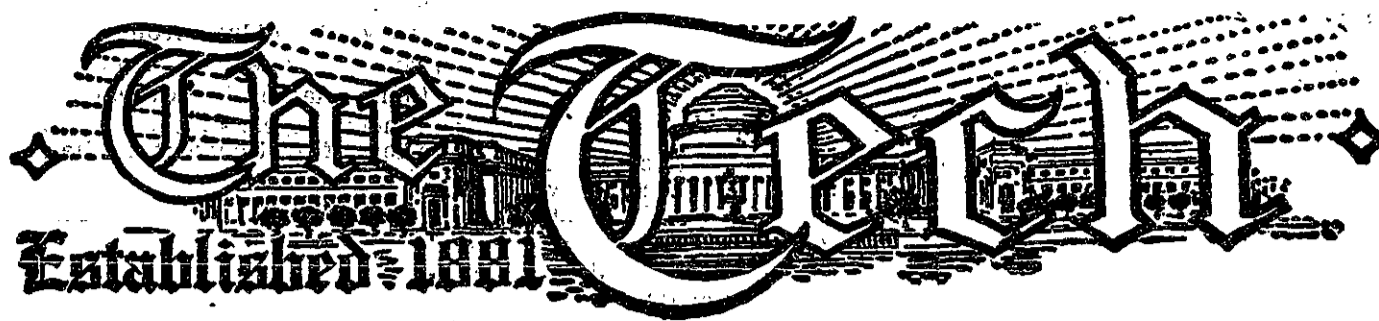


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Official
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of Technology

Vol. XLVI No. 12

CAMBRIDGE, MASS., MONDAY, MARCH 8, 1926

Five Cents

THE TECH ADOPTS NEW SALES SYSTEM —STARTS MAR. 15

Decision To Abandon The Honor System Reached After Extended Trial

PAY IN CASH OR COUPONS

New Subscription Campaign Is Launched—Reduced Rates For Rest of Term

Beginning Monday, March 15, the distribution of THE TECH by means of the honor system will be abandoned and a system whereby purchases will be made through "newsboys" stationed at various points about the Institute will be adopted. At the time of this change, a spring subscription campaign will be launched for the purpose of making available a reduced subscription rate for the remainder of the term.

Under the new method of sales, every person receiving a copy of THE TECH will be required to give either a subscription coupon or cash to "newsboys" stationed at three different points about the Institute. They will be on duty at the Building 2 entrance, Building 5 entrance, and in the main lobby from 8:45 o'clock to 12 o'clock Monday, Wednesday, and Friday mornings. Tuesday, Thursday and Saturday mornings copies may be obtained only in the main lobby at the same hours.

Statistics Show Loss

The decision to make this change was reached only after the honor system had been given a thorough trial lasting over a period of years. Statistics compiled by the business department of THE TECH show that losses of approximately 30,000 copies per year, and amounting to an average of 375 copies per issue, have been

(Continued on Page 4)

DR. HASLAM WRITES TREATISE ON FUELS

Book Aims To Unite Practice And Theoretical Science

Professor Robert T. Haslam '11 of the Chemical Engineering Department and Robert P. Russell, research associate, have recently completed a book on "Fuels and Their Combustion." The book is the outgrowth of a lecture course at the Institute and is intended to meet the needs of men using fuels in industry and of students in technical schools.

According to Professor Haslam the science of combustion has not kept abreast of practice, the book aims to fill in the gap left by this condition by treating those aspects of combustion and combustion practice which are chemical in nature by the methods of chemistry, and at the same time to fill practical needs. The treatise is comprehensive in scope and describes the origin and composition of fuels and their production. Artificial fuels are covered and the chemical principles of their manufacture presented. Representative types of combustion are discussed from the standpoint of the chemical principles involved. The book aims to be self contained in this respect.

Reviews in technical journals characterize this as a most comprehensive and valuable book. The chapter on combustion is considered particularly good. Dr. Haslam in commenting on the book said: "I had a headache for four years writing it."

Brodsky Gets Place In I. C. A. A. A.

Saul Brodsky, crack shotputter on Coach Hedlund's track team, came through with a heave of 40 feet 11 inches to win fifth place at the I. C. A. A. A. games at the 22nd Regiment Armory in New York city on last Saturday evening. A consistent place winner on the Engineer team, Brodsky is one of the favorites for individual honors in the New England held on Tech Field this spring.

Sports Summary For The Week-End

| VARSITY | |
|----------------------------------|---------------------|
| Fencing M. I. T., 6 | Dartmouth, 3 |
| Wrestling Syracuse, 14 | M. I. T., 11 |
| M. I. T., 28 | Rensselaer P. I., 3 |
| FRESHMAN | |
| Basketball M. I. T., 30 | Harvard, 25 |
| Track Huntington, 48 | M. I. T., 24 |
| Swimming Brown, 44 | M. I. T., 13 |
| Wrestling Columbia, 19 | M. I. T., 8 |
| Fencing Boston H. S. Commerce, 5 | M. I. T., 4 |

Motion Pictures Show Evolution Of Plant Growth

High Degree of Magnification Shows Protoplasm Growth From Pollen

Plant growth and the effects of stimulants on all sorts of plant life were outlined by Mr. Arthur C. Pillsbury in his lecture to the students of G75, last Friday afternoon in room 10-250. A large audience of Technology students attended.

As a result of years of experimenting, Mr. Pillsbury has produced four reels of film portraying the birth, life, and death of a large number of wild flowers found in Yosemite National Park. The pictures show that flowers have regular habits; they open and close with mathematical precision. According to Mr. Pillsbury about 75 per cent of the common wild flowers open in the evening and close before sunrise.

Sprouting Process Shown

One reel which represented a large amount of work, showed a single grain of pollen in the process of sprouting. A pollen grain cannot be seen with the naked eye, but by the process utilized by the naturalist each grain appears about the size of a marble. The fertilization of the cells, and the sprouting of the protoplasm, which is life in the lowest form, is shown very distinctly, in spite of the high magnification.

These pictures were obtained by taking one photograph on a movie film at various intervals of time, depending on the duration of life of the different plants. Microscopic pictures were obtained by using a double microscope in which a camera lens was combined with that of a microscope.

Besides plant life, many scenes of the Yosemite Valley were shown. One of the films, hand colored by French artists, depicted plants and valley scenes in an excellent reproduction of their natural colors. By the use of the research laboratory of the University of California he has perfected his process. Next summer he expects to delve farther into this subject, and will probably produce other films with a greater degree of perfection.

Executive Committee Appoints Two Delegates to Dedication of Library

Fish and Webster Represent Technology at American School in Athens

Edwin S. Webster '88 and Frederick P. Fish, members of the Executive Committee of the Corporation, have been appointed as delegates from Technology to the dedication of the Gennadius Library of the American School of Classical Studies at Athens, which will take place in April.

Founded in 1881 by the Archaeological Institute of America, the American School of Classical Studies is supported by the co-operation of leading American universities and colleges, who send graduates to study there, as well as furnishing financial support. Technology contributes a certain amount of money each year toward its upkeep, and several Technology students have obtained scholarships to

VARSITY FENCERS BEAT DARTMOUTH BY SCORE OF 6 TO 3

Squad Gains Victory Against Strong Italian Style of Big Green

LEVIS IS STAR OF MEET

Fencing 'a team using the Italian style of duelling, which is quite different from that used by most foils-men, and not being fully rested after their traveling of the last few weeks, the Technology team won again, this time from Dartmouth by the score of 6-3. The victory over the Big Green team brings the total of the Tech team up to 6 wins and only one defeat for the season.

In this meet, Joe Levis was the outstanding Technology man winning all of his matches. The first bout of the meet which was between Levis, and Lilley of Dartmouth was won in easy fashion by the Tech man. Every meet but one with the Navy has been started off by Levis with a 5-0 win for the former Engineer captain.

Levis Wins All Season

Without a doubt the two best bouts of the meet were those between Levis and Caprulo of Dartmouth and between Spitzli of M. I. T. and Johnson of Dartmouth. In Levis' bout his opponent was the cleverest fencer, using the Italian style, to be met in the Intercollegiate league this year. Levis finally won 5-4. Spitzlin, also was victorious, after a long battle.

There is no epee team at Dartmouth so the two duelling swordsmen, Captain Cole and Ivancich did not make the trip to Hanover. Joe Levis and Ken Hawthorne, although they won

(Continued on page 4)

PROM SIGNUP SALES DO NOT REACH QUOTA

Will Sell Chaperone And Stag Tickets For Same Price

Prom Tickets for the chaperones of the fraternity house parties will be sold at the time of redemption of signups, the first week in April. The price will be the same as the stag tickets, \$6. Favors will be given to the chaperones.

As the full quota was not reached during the signup campaign, members of the Prom committee will continue to sell tickets from time to time in the main corridor and in classes. A booth will be opened in Rogers tomorrow from 12 until 2 o'clock.

Members of the Junior class bought the bulk of the signups sold, with the Seniors buying most of the remainder. The two lower classes have shown little interest in the Prom this year.

Seating arrangements will be made early in April from the lists that have been turned in at that time. As the tables seat five couples, it is preferred that the students arrange their choice accordingly. Lists should be handed to any member of the Prom committee or addressed to Lee McCann, Walker Memorial Committee Room, and put in any Institute mail box.

Program For Whiting Concert Tomorrow

Mr. Arthur Whiting, Pianoforte
Miss Harriet Eells, Soprano
Brahms—Das Lied
—Vergebliches Standchen
—Von ewiger Liebe
—Sandmannchen
—Der Schmied
Mr. Boris Saslawski, Baritone
Borodin Dark Forest
—Pride
Moussorgsky—Night
—Hopak
Tchaikovsky—Pilgrim Song (Soprano)
Rhene-Baton—Apporte les cristaux d'ores
—Berceuse
Respighi—Egle
Faure—Les Roses d'Isphahan
Debussy—Mandoline (Baritone)
Folk-song (two) of Siberia
Volga Boat-song
Folk-song (two) of Little Russia (Soprano and Baritone)
Mozart—La ci darem la mano
—La dove prenda amor ricetto

Darrow Explains Fundamentals of Atomic Theories

Outlines Experimental Discoveries Upon Which Ideas Are Based

Experimental evidence underlying the numerous theories of atomic structure extant was outlined by Dr. Karl K. Darrow of the Bell Telephone Laboratories in the first of his group of three lectures which was given Friday at 2 o'clock in room 10-275.

Dr. Darrow started by saying that there are really very few things that we know about electrons. We have no direct substantiation of the conception of the atom as a billiard ball. Two fundamental things which were first learned about the electron are: that it is deflected a definite amount by electrostatic and also by electromagnetic fields. By measuring this deflection, and using simple mechanics, the ratio of mass to charge in the electron can be calculated.

Charges on Gas Particles

Observing the motions of gas particles ionized by such radiations as X-rays, there is a similar deflection, due to magnetic and electric fields, observed. The charge of these particles is found to be equal to that of the electrons, but opposite in sign.

Present experimental knowledge is almost completed by a study of certain radio-emissions, the alpha rays. In these, both the charge and the mass can be individually measured, and a perfect correspondence between the charge on an alpha particle and the electronic charge is found, "e" being half the alpha charge. This constitutes a check on the value of "e" obtained by the cathodic ray method and the values of charge and mass of the atom are thus known with reasonable surety. Nothing has really been learned, however, about the form or configuration of the atom.

Dr. Darrow will continue his discussion of contemporary atomic theory next Friday at the same hour in room 10-275.

EMPLOYMENT BUREAU HAS NEW MANAGERS

At a meeting of the cabinet of the Technology Christian Association last week, two new division managers were appointed in the Employment Bureau. David W. Crawford '28 is the new manager of engineering work, while Robert B. Rypinski '29 is now manager of chore work.

In a report presented by Grant G. Speer Jr., '26, manager of the employment bureau, it was pointed out that although the industrial conditions were not particularly bright, seventy-one permanent positions secured through the T. C. A. are being held by students of the Institute. The total earnings of students who obtained their positions through this bureau was \$2447.22 for the month of February alone.

SECOND WHITING CONCERT TO COME TOMORROW NIGHT

Baritone and Soprano to Give Vocal Selections From Recent Periods

TALK INTRODUCES MUSIC

Series Essentially Historical In Purpose, Exemplifying Prominent Types

Through the efforts of the Corporation Mr. Arthur Whiting, well known Boston musician, will present the second of his series of three lecture-concerts tomorrow evening in room 10-250 at 8:15 o'clock. All students and members of the staff and their families are invited to attend.

Miss Harriet Eells, soprano, and Mr. Boris Saslawski, baritone, both prominent New York singers, will assist Mr. Whiting in the presentation of tomorrow's program which will consist entirely of vocal numbers. As in the first performance, Mr. Whiting will open the program with a short introductory talk describing the theme and significance of the numbers to be rendered and the inter-relation between them.

Program Historical

All of the pieces presented are examples of prominent types of music developed in different periods, and the three programs are all essentially historical in purpose. Mr. Whiting is endeavoring to present recent types of classical and chamber music. They are being delivered as additions to the class room work in General Studies.

Miss Eells will open the musical selections with a rendition of a series of selections from Brahms, accompanied at the piano by Mr. Whiting, whose interpretations of this author are well known. Mr. Saslawski will deliver a group of Russian selections, and Miss Eells a series of French selections, both series being taken from semi-modern schools. In his second appearance, the baritone will sing the Volga Boat Song, which the class in Choral Singing is preparing at the present time. Two operatic duets, soprano and baritone, from Mozart will complete the program.

RESEARCH WORKER TO TELL OF EXPERIMENTS

Mr. Donald C. Stockbarger '19, of the Department of Physics, Division of Electrochemistry, will be the speaker at the Physics Colloquium in room 4-132 tomorrow at 4 o'clock.

He will discuss a device that he has developed for the producing audio frequency modulations in a beam of light. It is, in effect, a radio transmitter using the beam of light as a carrier wave. A second device incorporates a photoelectric cell capable of demodulating the light and reproducing the original sound.

Such a system is directional and at present little is known of its possibilities of a practical nature. It is very probable that ultra-violet rays may be used instead of a beam of light, thus rendering transmission invisible.

CALENDAR

Monday, March 8
5:00—Open House Committee Meeting, room 3-312.
Tuesday, March 9
1:00—Electrical Society Luncheon, North Hall, Walker.
5:00—Senior Week Committee and Marshall's Meeting, Walker Committee Room.
5:00—Christian Science Society Meeting, room 4-132.
5:00—Outing Club Meeting, Faculty Dining Room, Walker.
8:15—Whiting Concert, room 10-250.
Wednesday, March 10
7:30—Aero Society Smoker, room 5-330.
Thursday, March 11
5:00—Institute Committee Meeting, Walker Committee Room.
6:00—T. C. A. Dinner, Walker Grill Room.
7:00—Am. Soc. Military Engineers Meeting, room 5-330.
7:30—Theta Tau Smoker, Faculty Dining Room.
Friday, March 12
6:00—Am. Chemical Society Dinner Meeting, North Hall, Walker.
8:00—Chinese Students' Party Lecture, Faculty Dining Room.
8:30—Tech-Dartmouth Concert and Dance, Hotel Somerset.

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Official News Organ of the Undergraduates of Technology

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WHY NOT START NOW?

TECHNOLOGY wants a circus. Anyone who attended the circus last year and who took particular notice of student opinion at that time can have no doubt about that. But if there is to be a circus this year, something must be done about it at once.

The circus last year was a success. Activities, professional societies, fraternities, and dormitories were enthusiastic in arranging exhibits, the most of which were exceptionally good. In addition to the stunts from organized groups, individual members of the student body volunteered clown acts and acrobatics. It was estimated that at least 1500 attended, and all apparently enjoyed themselves.

A circus can be arranged either before or after the Junior Prom. If held before, time for preparation will be rather short; if held after, preparations may encroach upon the pre-examination cramming period. There is still time to arrange a circus before Junior Week, if action is started at once. Time will be short, but a circus planned on the spur of the moment will have the advantage of spontaneity where delayed action might result in stagnant formality.

Several undergraduates have suggested April Fool's Day as an ideal time for a circus. Certainly, a circus pervaded with the spirit of that day, would have an inherent advantage. We heartily fall in with the suggestion and recommend its adoption. There will be exactly three weeks after the next Institute Committee meeting in which to prepare and more than two weeks before the rush of Junior Week activities.

The presidents of the Senior and Junior Classes have stated that they are in favor of an annual circus, and we have heard enough favorable comment from members of the Sophomore class to assure us of its support. We have talked with representative members of the Institute Committee, and we feel certain that that body will take favorable action at its coming meeting.

In view of the shortness of time—if the Committee should see fit to select the first day of April—fraternities, dormitory groups, activities, and professional societies might well anticipate any action of the Institute Committee and plan for their respective circus acts. A preliminary consideration of each circus performance would waste little time, even if the Institute Committee should go so far as to refuse to sponsor a circus this year. Let's get busy and plan for a successful circus—at once.

THE STUDENT TAX

A WEEK and a half ago, the Institute Committee received a report from one of its committees—the committee appointed to investigate an increase in the Student Tax for the benefit of athletics. That committee after extended study, recommended that the Institute Committee request the Corporation of the Institute to increase the Student tax (at present \$9) to \$12.50. The report was an excellent piece of work, the committee conscientiously looked into the athletic financing system from every angle, and its report was logically prepared. But as thorough as this report was, we are surprised that the student body has assumed so passive an attitude toward its recommendations. Even those favoring all its recommendations have remained silent, and the sub-committee, the Institute Committee and the Corporation are at a loss to know how the student body feels about increasing the student tax.

As we said, we are dismayed at the reaction of undergraduate Technology to the report. Was the report as abstracted for the news columns of THE TECH so clearly and convincingly presented that undergraduates are behind it 100%? Does every student believe that the continuance of an aggressive constructive policy on the part of "athletics-for-all" policy on the part of the Athletic Association is justifiable? Does each of the student body realize that if the Corporation sees fit to grant the Institute Committee's request, his annual bill for fees will be \$3.50 greater? Does each student stand ready to pay out this extra tax next fall, in view of the needs expressed in the report?

THE TECH has felt from the start that the needs for funds with which to carry on athletics at Technology is real and just. We feel that the solution will be found in an increase of the tax. We also think that a majority of the student body is behind the move, but if the report swayed some 2500 students to one way of thinking, it was a better report than either its compilers or its Faculty critics could hope for. The "Open Forum" column of THE TECH is open to expressions of opinion.

GLASS HOUSES: a novel by Eleanor, Countess Gizycka. New York. Minton, Balch & Co. \$2.00.

One of the chief sources of amusement of the society which centers around the diplomatic circle, the society of which Countess Gizycka writes, is discussion of the foibles of its members. But very few of those who habitually cast metaphorical stones at others are themselves quite free from the faults they so strongly criticize in others.

"Glass Houses" is the story of a man and woman, each of whom has a "past," who are drawn together against their own better judgment. The book is highly sophisticated, occasionally charming in dialogue or description, and occasionally somewhat tiresome to the male reader when the author devotes a paragraph or two to a description of the costume worn by one or the other of the women characters.

The action travels from the diplomatic circle of Washington to the woods of Wyoming, with just a moment taken out for a glimpse into the home of a cocotte of the Riviera. The first scene shows us the Senate chamber in the Capital, with Lodge and Hefflin and a number of other familiar figures; and an illusion of reality is maintained despite the artificiality of the society described.

Altogether, the book is one which should make a pleasing present for a girl fond of novels. But it is not quite the type that appeals to the masculine mind.

INTERCOLLEGIATE WORLD: a monthly review. Baltimore: Thompson-Williams Publishing Company. 35 cents.

With the mention of a "collegiate" magazine, we picture a publication of counterfeited wit—the type of periodical which originated with the advent of the flapper and John Held, Jr. The atmosphere thus created gives a wrong impression of collegiate life in its true sense. The second number (February) of the "Intercollegiate World" has just reached us and we take pleasure in saying that it is the sanest attempt to review all phases of collegiate life that we have seen.

The publication is a review of the most illuminating "pieces de resistance" of prose, poetry, plays and news culled from the numerous undergraduate publications. Ample space is provided for discussions of athletics and talks on vocational guidance. In short, we think that the "Intercollegiate World" provides its readers with the impartial generalizations of what is happening in student life, without the bias of any single interest or movement.

Intercollegiates

Much interest has been shown lately in the resignation of the entire staff of the Davidson College Magazine. The entire staff resigned when the faculty refused to consider T. C. Barr as editor after he was duly elected by the students of the college. The trouble originated when the former editor featured in the Thanksgiving number an anonymous article entitled, "Dim Morning" and was thereupon expelled from the staff of the magazine. Barr, the writer of the article was then nominated by the staff and was unanimously elected by the student body. The students are solidly behind the staff and there is fear that the college magazine will be discontinued.

Plans for a \$186,000 Physical Education building at Oklahoma have been approved. This is the third unit in the largest and most systematic athletic plant building program in the Southwest. The plans include a pool with bleachers seating 20,000, and the main part eventually seating 20,000. The building is intended for intramural sports and physical training.

Play Directory

BOSTON OPERA HOUSE: "Carmencita and the Soldier."—A Moscow Art Theatre production. Runs until Friday.
CASTLE SQUARE: "Abie's Irish Rose."—Twenty-third week and still running strong.
COLONIAL: "Ben Hur."—A vast pageant and motion picture spectacle.
COPLEY: "Hay Fever."—Last week of this humorous production.
HOLLIS: Dark.
MAJESTIC: "The Big Parade."—A realistic movie, full of local color.
NEW PARK: "Rain."—A story of the conversion and the counter-conversion of a gay lady of the streets.
PLYMOUTH: "The Judge's Husband."—A great laughing success, witty, clever and well acted.
REPERTORY: "Heartbreak House."—A story of cultured, leisured Europe before the war.
TREMONT: "Naughty Cinderella."—In its last week.
WILBUR: "Aloma of the South Sea Isles."—A well acted play of love and drink in the South Sea Isles.

The University of Toronto has instituted a nursery school for the study of children from two to four. The object is to answer such questions relating to development of instincts, psychological reactions, and effect of environment as they may be able.

The Dartmouth has published a set of reasons "Why I Came to College" by about thirty students chosen at random. It appeared that the most common reason was that their parents and friends had filled them with the idea. Mental training came second while social advantages and a general good time followed.



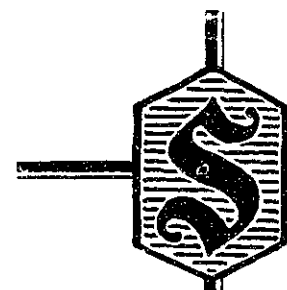
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OF ENGLAND AND SCOTLAND

WRESTLERS WIN AND LOSE ON TRIP

Fencing Team Continues Win Streak With Win From Dartmouth

Albright's Men Win From Rensselaer Polytech and Barely Lose to Syracuse

Swamping Rensselaer by the score of 28 to 3 and losing a close match to Syracuse by three points, the Varsity wrestling team acquitted itself very well on its New York trip. Against Rensselaer the Technology matmen won four falls and a decision, the only loss being scored against a man who was making his Varsity debut, while the Syracuse meet was not decided until the last bout when Patterson of Syracuse won a hard bout from Parks of Technology by a referee's decision.

Cullen, in the 115-pound class and Johnson in the 125-pound class did exceptionally well in the Rensselaer meet, the former winning a terrific bout which went to overtime periods with a time advantage of 47 seconds and the latter winning by a fall in the first overtime period in 1 minute 46 seconds. Both bouts were grueling affairs, leaving the men pretty well exhausted toward the end, but in each case the Technology man proved his superiority.

Score Three Falls
Capt. Franks, Harris, Staebner and Rabinovitz each scored five points against Rensselaer, the first three winning by falls while Rabinovitz won by forfeit when his opponent was injured and forced to withdraw. Joe Parks came against a good man in his first Varsity bout when he met Bazilevich of Rensselaer and lost the decision.

In the meet at Syracuse the score was close throughout and the Orangemen did not make sure of victory until Patterson won the final bout against Parks in the unlimited class. Harry Franks featured in this meet by his sterling work in beating Phillips of Syracuse.

Jimmy Cullen again started the team off on the right track by winning a hard bout which went to overtime periods. Syracuse, however, evened up the score when Deleon won the decision from Johnson of Technology and forged into the lead through the victory of Vanderpool over Rabinovitz of Technology in another extra period bout.

With the score 6 to 3 against them, the Engineer matmen showed their fighting spirit and scored eight points in the next two bouts when Harris won by a fall and Capt. Franks earned a decision. The lead was short lived unfortunately, as Staebner was thrown in the 175-pound class, thereby tying up the score again.

In the final bout in the heavyweight class Joe Parks lost by a decision to Patterson of Syracuse in a strenuous session. There are now only two more meets before the New England intercollegiate, and at the rate they are going now the Institute matmen

should be in top form for these bouts.

Rensselaer Meet
115—Cullen, Tech, defeated Lee, R. P. I. Overtime periods. Time advantage 47s.
125—Johnson, Tech, threw Duznbarré, R. P. I., first overtime period. Time: 1m. 46s.

135—Rabinovitz, Tech, beat Demattia, R. P. I. by forfeit.
145—Harris, Tech, threw Norton, R. P. I. Time: 5m. 58s.

155—Franks, Tech, threw Whiting, R. P. I. Time: 4m. 23s.
175—Staebner, Tech, threw Stamberger, R. P. I. Time: 3m. 47s.

Unlimited—Bazilevich, R. P. I., defeated Parks, Tech. Time advantage: 6m. 16s. Score: Tech 28; R. P. I. 3

Syracuse Meet
Cullen, Tech, defeated Allen, Syracuse. Overtime periods. Time advantage: 2m. 45s.

Deleon, Syracuse, defeated Johnson, Tech, referee's decision.
Vanderpool, Syracuse, defeated Rabinovitz, Tech. Overtime periods. Time advantage: 2m. 11s.

Harris, Tech, threw Aunger, Syracuse. Time: 5m. 50s.
Franks, Tech, defeated Phillips, Syracuse, referee's decision.

Klein, Syracuse, threw Staebner, Tech. Time: 1m. 29s.
Patterson, Syracuse, defeated Parks, Tech, referee's decision.

Score: Syracuse 14, Tech 11.

HUNTINGTON RUNNERS OVERCOME FRESHMEN

Prep School Men Double Score Of Technology Frosh

Huntington Prep School's track team outclassed Technology's freshman squad Friday afternoon on the boards when they made two points to every one that Tech made, the final score being 48 to 24. Huntington jumped off to a flying start by capturing first and second in the first two events, the 45 yard low hurdles and the 50 yard dash. Jones and Farrar led in the hurdles while Pickard and Woodworth beat out Earle of Tech in the half-century.

In the 300 yard dash Pickard and Woodworth again placed but this time they managed to get only second and third place, Hallahan of Tech leading them to the tape after a hard race. The best that the freshmen could do in the 600 was to grab a paltry third, Goodwin of Huntington winning this event in fast time. Teevens lived up to his reputation by walking off with first in the 1000. Worthen, Tech, forced him to exert himself at times but the outcome was obvious.

Joe Brodsky held up the family honor by taking the shot put, heaving the 12 pounder 39 feet 3 1/2 inches. Rowe of the Prep School was the star of the field events getting first in the running broad jump and tying with Allen of Tech for first in the high jump.

YEARLING GRAPPLERS BEATEN BY COLUMBIA

Technology's freshman wrestling team went down to defeat at the hands of the Columbia yearlings at the Morningside Heights gymnasium at Columbia on Saturday. The Blue and White cubs won four of the five bouts contested, each team winning one by default, because Columbia had no 115-pound man and Technology had no heavyweight.

DerMarderosian scored the only victory for Technology when he defeated Tassi of Columbia by a referee's decision. Bacon, Capt. Burke, and Dickinson all lost decisions while Giardino was thrown. The latter secured a half nelson and side crotch on Zahlasnik of Columbia, but in rolling on the mat the Technology man landed on the bottom, and so lost by a fall.

BROWN CUBS SWAMP FRESHMAN SWIMMERS

With but one first place chalked up to their credit and not enough seconds and thirds to make up for this deficiency, the Tech plebe swimming team was defeated by the Brown cubs 44-18 on Saturday evening in the Providence pool.

Tufts, swimming in the 100 yard breast stroke accounted for the Engineer's only individual win and he got this only because the Brown man who finished ahead of him was disqualified on the first turn. Lamb, dash man for the Cambridge team, got two second places, one in the 220 yard free style and the other in the century free style.

Luey, with a second in the 100 yard back stroke, a third in the 50 yard free style, Baker, with a third in the dives, Kenney with a third in the 220, and Houck, with a third in the breast stroke were the other counters for the Tech team.

Engineers' Frosh Basketball Team Defeats Harvard

Closely Contested Battle All The Way Through—Lead Crimson At Half

Displaying their best form thus far this season, Coach Bery Morgan's fighting frosh outplayed and won over the fast going Harvard yearlings by a 30-25 score in the Hangar gym Saturday evening.

Harvard got the ball on the tip-off and in less than a minute the first Harvard score was tallied, Harvard then made good on a foul shot and had a three point advantage over the Engineers. However this lead did not remain this way very long as Bery Morgan's charges found their bearings and counted from quarter court and also from the foul line. Immediately after this the Engineers went into the lead with a pretty follow up shot under the basket. From then on the Cardinal and Gray five were never headed.

At the end of the first half, the Crimson were trailing by four points. Harvard, although they played their best could not overcome the Engineer lead, but nevertheless played brilliant basketball in the final period playing the Cardinal and Gray even all the way through.

ENGINEER MERMEN LOSE TO BROWN—SCORE 42-20

Brown University's swimming team scored a 42-20 win over the Cardinal and Gray natators at Providence Saturday night. Incidentally the Engineers were able to capture one first place, Al Puschin taking the 200 yard breast stroke in the fast time of 2 min. 58 secs. and at the same time lowering the pool record.

Brown's guiding light was none other than Captain Mark Coles who featured the meet in winning the 50 and 100 yard free style events in fast times.

Brown Takes Lead
Brown took the lead at the start in the 50 yard free-style when Grover got off to a poor start and was unable to overcome Coles finishing about a yard and a half behind the winner.

In the long distance swim Weis and Keay took second and third for Technology in a hard race, Goff of Brown winning the event. The diving proved to be one of the closest events of the evening which was one by Hull of Brown. Woods and Brown of Technology gave a good exhibition.

In the backstroke swim, only one Technology entrant raced. The Brown men took first and second places while Bridges of Technology finished a slow third.

In the biggest event of the evening Capt. Coles of Brown won the 50 yard free-style in the fast time of 57 seconds flat, nosed out Grover by scarcely a hand's length. Both men raced neck and neck all the way and to the spectators it appeared a tie race.

In winning the breast stroke Al Puschin who a few weeks ago lowered the Technology record, smashed the pool record in the fast time of 2 minutes 58 seconds.

(Continued on Page 4)

LOST

New light gray Dunlap felt hat with bound brim at the Sigma Alpha Epsilon Fraternity House, 484 Beacon St., between 2 and 3 A. M. on evening of March 5th. Initials G. C. H. on hat band. Will finder please return to G. C. Houston '27, 259 St. Paul St., Brookline. Reward.

A CLEAN PLACE TO EAT

WALKER MEMORIAL DINING SERVICE

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TALK about "alliteration's artful aid" . . . the printer certainly raided the "p" box that trip. But let that go! The advice is just as serious and sound as though it were couched in the careful diction of an English prof.

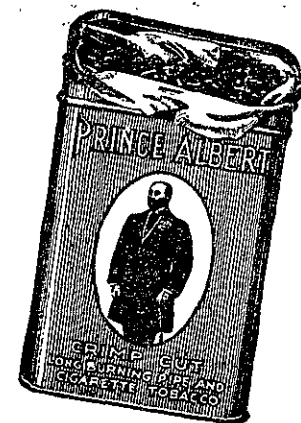
Just get yourself a jimmy-pipe and fill the bowl to the brim with Prince Albert. Light up, and let the first fragrant whiff tell you that no other tobacco is like P. A.—or can be! Cool and sweet and fragrant, P. A. has everything a fellow ever wished for in a smoke.

P. A. can't bite your tongue or parch your throat. The Prince Albert process settled that in P. A.'s freshman year. Get yourself a tidy red tin of Prince Albert today. The first load-up will tell you why pipes are so fashionable among young men today.

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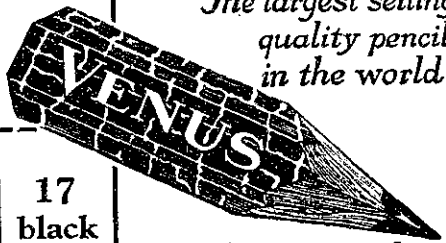
AERO SOCIETY TO HEAR WAR PILOTS

Major H. Buckley Willis, formerly a pilot in the famous LaFayette Escadrille, and Lieutenant Mac Short will be the speakers at the Smoker of the Aeronautical Engineering Society which is to be held Wednesday at 7:30 o'clock in room 5-330.

During 1917 Major Willis was shot down and his plane fell within enemy lines and he was a prisoner in various camps until October 1918 when he escaped disguised as a guard after having short-circuited the electric lights about the camp. Lt. Short will relate his experience of "gyping" in this country. He was one of the first post-war gypsy pilots.

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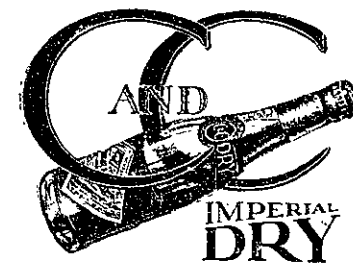
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VARSITY FOILSMEN DEFEAT BIG GREEN
(Continued from Page 1)

Their bouts were slightly under the weather when they went on the mat and immediately after the meet, Ferre was taken ill. These casualties will necessitate the men getting a good week's rest before they meet the Army next Saturday.

The meet with the West Pointers will be a real test for the coachless swordsmen and will give a good line on the team as to their chances in the Intercollegiate.

Technology 6, Dartmouth 3
Levis, M. I. T., defeated Lilliey, Dartmouth, 5-0.
Levis, M. I. T., defeated Cepulo, Dartmouth, 5-4.
Levis, M. I. T., defeated Townsend, Dartmouth, 5-1.
Hawthorne, M. I. T., defeated Townsend, Dartmouth, 5-4.
Ferre, M. I. T., defeated Rockhill, Dartmouth, 5-1.
Spitzel, M. I. T., defeated Johnson, Dartmouth, 5-3.
Cepulo, Dartmouth, defeated Hawthorne, M. I. T., 5-3.
Townsend, Dartmouth, defeated Ferre, M. I. T., 5-2.
Cepulo, Dartmouth, defeated Capone, M. I. T., 5-0.

DR. LEWIS TALKS TO CHEMISTRY STUDENTS

Mr. W. P. Cutter, in charge of the Information Service of A. D. Little, Inc., and Dr. Warren K. Lewis, Head of the Department of Chemical Engineering, were the speakers at a meeting of the Chemical Society Friday evening in North Hall Walker.

Dr. Lewis discussed the history of chemistry and commented particularly on the "two outstanding" chemists of the nineteenth century, Faraday and Pasteur. Mr. Cutter, in speaking of "The Value of the Study of Chemical Literature," said that the ability to read foreign languages, particularly German, was of enormous value to a chemist, especially if he were doing analytical work. He cited the case of the opening up of a large new mine in Utah, where after purchasing needed machinery and other needed supplies, a good library was laid in. This enabled Mr. Cutter to be the only one for miles around who could do assay work.

SWIMMERS LOSE TO BROWN BY BIG SCORE
(Continued from Page 3)

In the final event of the evening, the relay, Brown won by a small margin. The lead-off men Ralph Johnson of Technology and Goff of Brown practically engaged in a tie.

Fifty yard dash—Won by Coles (B), second, Grover (T); third, Hull (B). Time—25s.
Two hundred and twenty-yard swim—Won by Goff (B); second, Weis (T); third, Keay (T). Time—2m. 40 4-5s.
Dives—Won by Hull (B); second, Woods (T); third, Brown (T).
One hundred and fifty-yard back-stroke—Won by Merchant (B); second, Carberry (B); third, Bridges (T). Time—1m. 53 3-5s.
One hundred-yard swim—Won by Coles (B); second, Grover (T); third, Gee (B). Time—57s.
Two hundred-yard breast stroke—Won by Puschin (T); second, Pevear (B); third, Barnes (B). Time—2m. 58 2-5s. (Pool record.)
Relay race—Won by Brown Goff, Litchfield, Hull, Coles). Time—1m. 44s.

NOTICES

UNDERGRADUATE SENIOR WEEK COMMITTEE

Class Day Marshalls and members of the Senior Week Committee will meet in the Walker Committee Room at 5 o'clock tomorrow.

OPEN HOUSE COMMITTEE

There will be a meeting of the Open House Committee in the Combined Professional Societies' Office, today at 5 o'clock

JEWISH STUDENTS

The College Club of Temple O. S. will meet this evening in the temple center, Beacon Street at Marshall. The Tempel Israel meets tomorrow evening and Basil L. Q. Henriques will speak. All Technology students invited.

AERO SOCIETY

Major Willis and Lieutenant Short will speak at the Aeronautical Engineering Society Smoker in room 5-330, Wednesday at 7:30 o'clock.

OUTING CLUB

The Outing Club will meet in the Faculty dining room, Walker, at five o'clock tomorrow.

CHRISTIAN SCIENCE SOCIETY

There will be a meeting of the Christian Science Society in room 4-132 tomorrow, Tuesday, at five o'clock.

THE TECH ADOPTS NEW SALES SYSTEM
(Continued from Page 1)

sustained as a result of the honor system. Of the total undergraduate circulation, 43% of the copies placed on the stands are unaccounted for by cash or subscriptions; and of the undergraduate circulation not including subscriptions, 84% of those who should pay cash have not done so.

Subscription Rate Lowered
Subscriptions for covering all remaining issues of the present term will be palced on sale in the main lobby from 9 o'clock to 2 o'clock all next week for 75 cents each. This reduced rate makes the price of one copy less than 2 1/2 cents.

Men who have lost their coupon books may apply at Room 302 Walker Memorial to have books reissued. Difficulties encountered because of the inconvenient size of the old subscription coupons have eliminated in the new spring coupons by making them larger and easier to handle.

Arrangements are under way to open a sales stand in Walker Memorial every day from 11 o'clock to 12 o'clock when the new system becomes effective. Dormitory and fraternity distribution will not be affected in any way by this change, this part of the circulation being handled as in the past.

YEARLING FENCERS LOSE TO COMMERCE

Saturday afternoon in Walker Memorial the Boston High School of Commerce just barely eked out a victory over the Technology freshmen fencing team by the narrow margin of 5-4. Harrison of the frosh with two verdicts scored in his favor was high point man for the yearlings while Kean and Meitlich, members of the schoolboy team, also accounted for two wins.

TECH SHOW AND A. A. COMBINE IS AT WORK

Thirty M. I. T. A. A. Sophomore assistants and Tech Show assistant managers met last Saturday for the purpose of co-operating in mailing out Tech Show sales letters to Alumni. An official of Tech Show was present to outline to them their duties in the coming campaign.

About 5000 names of Alumni will be divided up among the workers making slightly less than 200 for each man to whom letters and follow-ups must be sent. The first letters go out on Thursday.

By co-operating with Tech Show in this matter, the Athletic Association hopes to gain the sum of \$2000 for athletics, which is badly needed at the present time.

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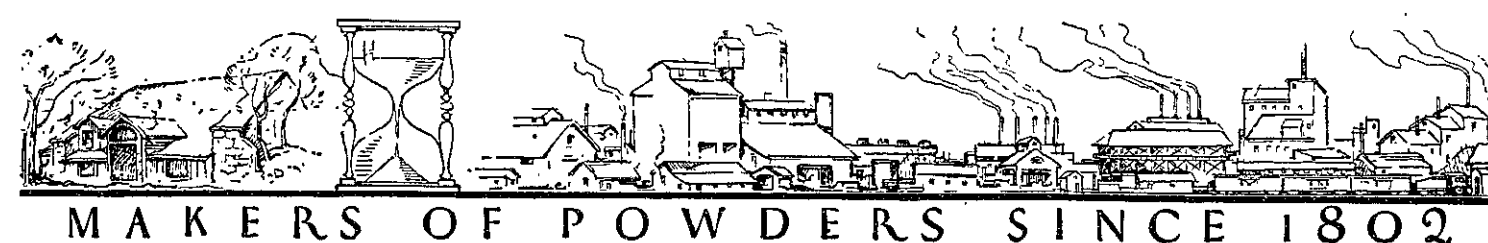
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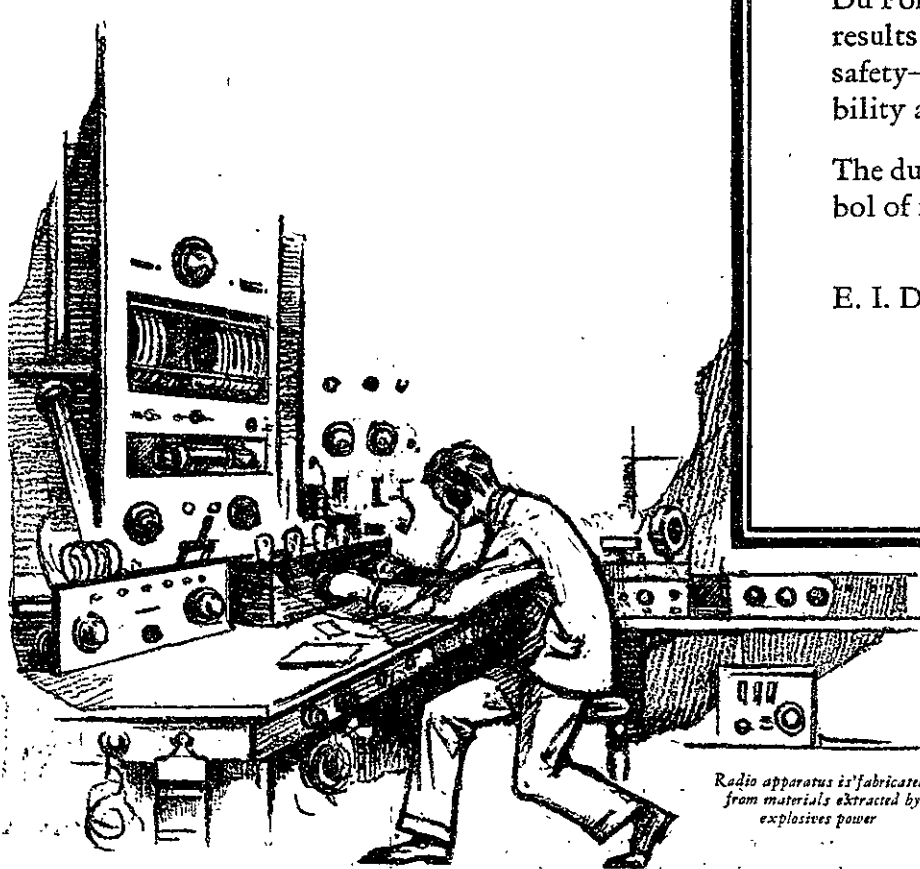
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