

COON AND GRONDAL SCRATCH WINNERS IN HANDICAP MEET

Wordsworth and Shaw Win
With Small Handicaps in
the Running Events

ONLY FOUR EVENTS HELD

Coon, Wordsworth, Shaw, and Grondal were the winners in the Handicap meet held Saturday afternoon on Tech Field. Of the six events scheduled only four were run off. The mile and a half run and the Pole Vault were the events to be cancelled. Of the winners, Coon and Grondal were the only scratch men to take first place. Grondal is a member of the Varsity team while Coon is a candidate for the freshman team.

The first event of the afternoon was the 150 yd. dash. Three heats were run in this event and a final. Peck was the winner of the first preliminary heat with the time of 16 3/5 secs. Shaw took second place in this heat. The second trial was won by Kreuzcamp with Goodman second. The time for this heat was 16 1/5 secs. Lichtenstein won the third heat in 16 2/5 secs. with Dworzski and Hughes tied for second place.

Immediately following the preliminaries of the 150 yd. dash, the 660 yard run was held. Brown was the only man to start from scratch and he took fourth place. Wordsworth, with a handicap of 18 yards won the event in 1 min. 28 3/5 secs. Graham, with a 30 yd. handicap, took second place. Seaver, with 35 yds., was third.

Following this the finals of the 150 yd. dash were held. In this race, Shaw reversed his position with Peck. He took first place in 15 3/5 sec. while Peck was a close second. Kreuzcamp took third place.

In both the field events held the favored men were the winners. Grondal, in the shot put, and Coon, in the high jump, both started from scratch and ended up in first place. In the shot put, McGleev took second place while Hall took third. Grondal's distance was 48 ft. 10 in. Hall was second in the high jump, Whitworth took third and Zigler fourth. Coon made his highest jump of 5 ft. 9 in.

First Colloquium Of Series Today

J. Ormondroyd of Westinghouse to Speak on Problems
Of Vibration

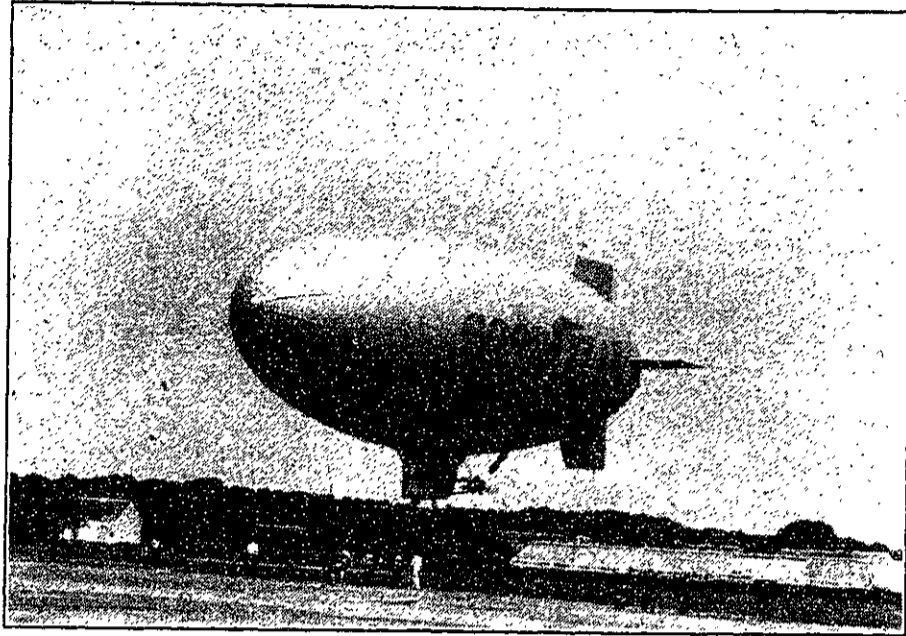
Mr. J. Ormondroyd of the Westinghouse Electric and Manufacturing Company will conduct the first colloquium of a series of three on "The Scientific Aspects of Design Problems in Large Electrical Power Apparatus". He will speak on "Vibration Problems of Electrical Machinery" today and tomorrow in Room 4-213 from 2 till 4 o'clock. On the first day a general discussion of the problem will be made, while Tuesday the specific vibration problems of Diesel and Gas-Electrical Generating units will be treated.

These colloquia will be conducted by members of the technical staff of the Westinghouse Electric and Manufacturing Company and are open to seniors, graduate students and members of the junior honors group who are interested in the general topic. As the presentation and discussion will occupy both days, students attending are expected to arrange their work so as to be present both days, both out of courtesy to the leader and in order that they may derive maximum benefit from the presentation.

Constructors Labor 'Til Wee Sma' Hours

Despite the fact that Course XVII is the newest course at the Institute, it has long had the reputation that many extra hours are required to get the assigned work finished on time. This year has proved to be no exception if lights in the drawing room in the small hours of the morning can be taken as an indication that work is being done. Perhaps the cause for this outburst of labor can be attributed to the fact that the zero hour for the first plates of the year is approaching.

Dirigible Loaned to Technology Used In Research on the Sommerfeld Theory



The Mayflower of Round Hill

RADIO STUDIED AT SOUTH DARTMOUTH

Propagation of Radio Energy
Tested With Aid of
Dirigible

Under the direction of Professor Edward L. Bowles, Professor Julius A. Stratton and Howard A. Chinn of the Electrical Engineering Department, experimentation concerning the propagation of radio waves of the order of five to twenty meters was carried on this summer at South Dartmouth, Mass. For this purpose, the blimp, Mayflower, was used in securing much of the data taken during July, August and September. The rigorous mathematical theory that radiation from an antenna may be used to predict the effect of the conductivity of the earth in the propagation of radio energy over its surface was confirmed. This proposition, worked out by Sommerfeld a number of years ago, was tried out over a considerable range of wave lengths.

The Sommerfeld Theory resolves the radiation into two components, the surface wave and the space wave. Measurements which have been made the past six months were not only for the purpose of verifying the statement but to prove the assumptions upon which it is based which have to do with the surface of the ground. Most of the work was done with the dirigible over the ocean and at

TENTATIVE FRESHMAN EIGHT IS SELECTED

Three Yearling Oarsmen Enter
With Rowing Experience

For the Field Day crew to be picked from the three boatloads of freshmen competing for places, the following constitutes a tentative list: bow, Theiler; 2, Regan; 3, Madden; 4, Hapgood; 5, Glenn; 6, Bell; 7, Miller; stroke, Trimbull; coxswain, Green. Of the eight oarsmen listed only three have had previous crew experience. Trimbull, stroke, led the Culver Military Academy crew last year. Miller, number seven, rowed for Brookline High School, and Theiler, bow, was a member of the Choate School crew.

Sophomores Have Advantage
Considering that the Sophomore crew this year is composed of members of last year's 150-pound freshmen who were able to beat the freshman heavies on nearly any occasion, and sometimes defeated the Sophomore crew of the year, this year's freshmen are in need of their three experienced men and perhaps a few more to boot. They have one advantage over the second year boat in the fact that they are turning out regularly and putting up a real fight for seats. The Sophomores have nearly every advantage this year over the freshmen but they fully realize the dangers of over-confidence.

Just as soon as the second year men start turning out regularly, so that some reliable and accurate information can be obtained, a tentative list of their crew and the news of their rowing activity will appear in THE TECH.

INSTITUTE WILL PAY CITY TAXES

Technology, Harvard, Radcliffe
and City of Cambridge
Agree on Tax

Technology, Harvard, and Radcliffe have ended a controversy lasting through many years by signing an agreement with the city of Cambridge to voluntarily pay the equivalent of taxes on certain of their properties. This is probably the first time in which a settlement has been made between city and college, and it may be a guide for the rest of the country to go by.

The agreement incorporates two important clauses. All property obtained

(Continued on Page 3)

Football Squads in Practice Daily For Coming Game

Sophomore Team Outweighs
1933 Gridmen by 10 Pounds
To the Man

Practicing every evening on the Tech Field, the Sophomore and freshman gridiron squads are rapidly getting into shape for Field Day, less than two weeks away. The yearling team will have several practice games with the freshman teams of local colleges, while the Sophomores have no games scheduled before the clash.

With ten of last year's first team back, the upperclassmen feel confident of duplicating their famous victory over the Class of 1931. Last year the freshmen defeated the E. U. yearlings by a score of 40 to 0, losing their preliminary to Tufts after a hard game by 18 to 0. In the Field Day game the Class of 1932 was again victorious, winning a hard fought contest 20 to 0.

Sophs Outweigh Frosh

This year the Sophomores will outweigh the freshmen more than ten pounds to the man. The line on the Sophomore team averages close to 170 pounds, while the backs average nearer 180. The weight average for the yearling squad is a little over 160 pounds, with two or three 180 pounders. Due to the fact that only 15 men have turned out for the upper-class team, more men are urged to come out to practice for the line positions.

Nearly forty men have reported for the freshman team, but only twenty are out every day. Most of the men cut have played on high school teams, but the squad as yet has no stars. The yearlings practice every day from 4 to 6 o'clock, except Friday when they work out after five. All men interested in playing in the Field Day game are urged to come out any night after four o'clock and report to Coach Bailey at Tech Field.

FIELD DAY OFFICIALS

Referee Major F. H. Briggs '81	
Chief Timer Dr. Allan W. Rowe '01	
Timers	
Dr. J. A. Rockwell '96	Prof. George Owen '94
Starter J. J. McNamara	
Inspectors F. W. Sears	
H. E. Worcester	D. L. Rhind
Clerk of Course Allen Vorce	
Manager James B. Fisk	
R. Pratt	Assistant Managers J. Kimble
Relay Race	
Referee, Prof. George B. Waterhouse	
Judges	
Henry Pierce	R. C. Thompson '13
Tug-of-War	
Referee Major F. H. Briggs '81	
Judges	
Dean Lobdell	H. S. Ford
Football Game	
Referee George Carens	
Umpire Austen Lake	
Field Judge George Lowe	
Head Linesman Henry P. McCarthy	
First Marshal—John F. Bennett '30	
Marshals—Class of 1930	
Charles T. Abbott	Sven G. Lawson
Hermann S. D. Botzow	Frank J. McKenna
Robert P. Crowell	Morell Marean
Joseph W. Devorss	Robert M. Nelson
Charles T. Dwight	Henry O. Pattison
John M. Hanley	Ralph W. Peters
Edgar M. Hawkins	Laurence Podvin
James B. Holden	Theodore A. Riehl
Philetus H. Holt	Edwin R. Rowzee
D. Tullis Houston	Parker H. Starrett
Wilfred F. Howard	Philip Torchio, Jr.
Bryant F. Kenney	David Q. Wells
Frederick A. Ladd, Jr.	Allen Latham, Jr.
Head Usher—Horace S. Ford, Jr., '31	
Ushers—Class of 1931	
Joseph B. Birdsell	William P. G. Hall
Harold P. Champlain	Robert T. Leadbetter
Ralph Davis	John M. MacBrayne, Jr.
Warren T. Dickinson	Gilbert M. Roddy
John H. Genrich	Kenneth W. Smith
O. Glenn Goodhand	

VARSITY BOOTERS LOSE 7 TO 3 TO DARTMOUTH TEAM

Freshmen Unable to Score on
Big Green Yearlings—
Lose 2 to 0

TWO INJURED IN GAME

Schultz, Velez, and Kashem-
santa Score Spectacular
Goals for Technology

Both the Varsity and freshman soccer teams were defeated at Hanover by the Dartmouth booters on Saturday in two very fast games. The score of the Varsity game was 7 to 3 while the freshmen were beaten 2 to 0 by the recreational team which was composed chiefly of 1933 men.

The Engineer Varsity was peppering the Dartmouth goal in the beginning, but the goalie made some fine stops of hard fast shots. It was not until Dartmouth broke through for a point that Velez scored for Technology. Just before the end of the half Egan of Dartmouth scored on a pass from Stollmeyer who was the star of the opposing team, making four of their goals and passing for the rest.

Although there were many fouls called, the game got rougher and in a scrimmage Youngson had his right elbow dislocated and was taken out of the game. The engineers started an attack but their shots went high. Following this, Dartmouth scored two goals in rapid succession. In the fourth quarter Schultz scored from 20 yards out, the ball going through the Dartmouth fullback and goalie.

Both teams were tiring in the last quarter and Stollmeyer dribbled through for two more points. Kashem-santa put the final Technology goal through the uprights with a fast shot. Fragiaco was kicked in the

(Continued on Page 3)

NUMBER OF DANCES WILL BE LIMITED

Interfraternity Conference is
Planning Restrictions
On Social Functions

At a meeting of the Interfraternity Conference held Tuesday night, it was decided that the first dance of the year will be given on November 15, at Longwood Towers. The quota of tickets for each fraternity this year will be half of the total membership instead of two thirds as it was last year.

During the course of the meeting at which David Q. Wells '30 presided, it was suggested that the Social Committee be given power to limit the number of fraternity dances. The plan is that each fraternity must turn in the date of their dances to Theodore H. Riehl '30 chairman of the committee. Only the first three handed in for any particular night will be accepted. This does not mean that they will be restricted as to the number of dances they have during the year, but that only the first three to turn in the date of a dance for a night will be allowed to have them.

Section Leaders are Chosen by Freshmen

Following are the names of the
section leaders elected by the
Class of 1933:

Section No.	Name
1.	Fred L. Haas
2.	Asa H. Jewell
3.	William E. Rand
4.	Wilbar B. Huston
5.	Robert A. Ghelardi
6.	
7.	Kenneth M. Warren
8.	Arthur S. Brown
9.	Albert G. Frost
10.	Johnson Couch
11.	Samuel E. Lambert
12.	John D. Milburn
13.	Harry G. Lees
14.	Charles C. Bell
15.	Henry B. Kroger
16.	George A. Newman
17.	David R. McGregor
18.	Fred H. Cooper
19.	John C. Russel
20.	
21.	Carson W. Hunt
22.	Francis C. Martin
23.	Charles E. Stearns

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NEANDERTHAL NOTIONS

ITS inception dating back a few odd million years, the desire to conquer has become inherent in the human race. When the first cave man that crawled from his fur bed early one morning and whetted his cudgel on the armored back of his favorite dinosaur, he established a real precedent. For he was the first man with a definite urge to over-power his contemporaries. Perhaps the roof of his cave leaked or the floor wasn't all hard rock and he was out to get himself a better one. Or perhaps he was interested only in giving his nearest neighbor a thump on the head to see what would happen.

His exact object matters little; it is only necessary that he had one. And judging from the quantity of business-like stone weapons discovered by archaeologists it is apparent that he had not one object in life, but many. This "spirit of conquest" or "will to do" has passed from father to son until it reaches intact the present day college field day for one expression.

At Technology it has long been the custom to hold a Field Day whereon Sophomore meets freshman to determine the relative physical and strategical prowess of the two classes. Animated by the same "spirit of conquest" these latest model units of society do not calibrate their ability by crushing each other with boulders, or other cave-ish devices of annihilation, but by clean-cut sport.

Coercion is impossible; even suggestion is usually taken in the wrong light. Which explains why it is so difficult to make any regulations regarding Field Day. For in spite of appeals to the gentlemanly instincts of men, some are sure to forget that in spite of its crude beginnings competition has passed from cave-man tactics. Picture writing is prehistoric, not fashionably antique, and shows particularly bad taste when its practise defaces Institute buildings. Other actions are reminiscent of the ape-men and fall into the same category—rowdiness is not worthy of a student at Technology.

Already the practises for the day have begun, but the enthusiasm for participation has not been great. Get out, freshmen, for your own enjoyment and the honor of the class. What is the trouble, Sophomore? Are you content to lie back on your laurels with no attempt to duplicate of last year? Get out and fight, everybody!

Surely we may have the fun of a battle royal carried on according to high standards. We appeal to the true sporting spirits of the contestants in their conduct before and during this traditional event.

EDUCATION—A SINKING SHIP

IF the desire of undergraduates for a sound education cannot be increased over what it has been, the American college, in spite of its present vogue, will not endure." Thus spake the revered Dr. A. Lawrence Lowell, president of Harvard University, at the 65th convocation of the University of the State of New York.

It is not for us to criticize so noted an authority, but in generally condemning social and athletic interests of students as he did, we feel that President Lowell made an over statement. In claiming that the tutorial system in vogue at Harvard "has extended the conception that the object of the college is to develop the capacity of the student to use his own mind", he is quite right. But surely the man who devotes some of his time to outside activities does much more in the way of self-development than he who confines himself wholly to his studies. If the president included outside interests such as the many at Technology in his maligning, he was wrong, for no graduate has really completed his education without them. Put them above the scholastic side? No. But a schedule well-balanced with studies and extra-curricular activity is the ideal.

Activities cannot be under-rated. Their indirect influence has been the cause of good after-graduation positions for more than one man, to say nothing of the great good they bring during school years.

However much Dr. Lowell may worry about the sinking ship of education on which we are all drifting, we fail to notice, after a perusal of college entrance statistics, anything of the proverbial exodus of rats.

THE LOUNGER

The Lounger has done quite a bit of griping in his time, but he is always on hand to bellow forth some more when it is needed. This time it is at the perverted humor of some would-be collegiates who believe that the classic beauty of the Institute Buildings is enhanced by the amateur application of red paint. Red paint is not the easiest thing to remove from limestone, as any good scientist should know, and Bursar Ford is on the war-path for the miscreants.

Speaking of painting the walls of the Institute, if the prospective contestants in the Field Day brawl want to exhibit their class spirit, why not show a little real spirit with a few good P. J.'s?

The Lounger dug up a choice bit of dirt the other day. It seems that the Chemical society has a raffle at every meeting, in which a book is disposed of. According to the scandal-monger who approached the Lounger with a countenance distorted with fiendish glee, the buyer of these books procures them at the Coop, with the enormous co-operative profits accruing to him through his card. Such financial wizardry sounds more like a Corporation scheme than that of a serious minded chemist.

As We Like It

THE METROPOLITAN

The little "IT" girl herself plays the stellar role of this week's offering at the Met. Those who have always enjoyed Clara Bow will like the picture, and those who have been irked with her "emoting" on the stage will find her acting in "Saturday Night Kid" a change for the better.

While her "Dangerous Curves" are still in evidence, and her famous "U. S. A." is used to good advantage, she has calmed down from the standard of her former pictures. As the sincere lover in a story of the life of a department store clerk, she shows that she can carry a picture without so many of the usual "hot" scenes.

A dishonest sister furnishes the appropriate contrast for Clara's genuineness. Both the girls are typically the working girls, and their home life and the atmosphere of a big department store are realistic. The plot in general is rather shop-worn, but enlivened

with clever dialogue and interesting situations.

Ruth Etting is easily the star in the stage show. This former Zeigfield beauty, whose voice has been heard by thousands on phonograph records, is on the stage in person. Enhanced by a beautiful setting, her singing of favorite popular numbers is excellent. In fact, the whole of "Showland Revue" directed capably by Al Wohlman, is a fine performance. However, one hears so much about the chorus girls who are roaming the streets looking for jobs that it would seem easy to pick out a group which would better come up to specifications than did the kickers of this show.

Some entirely new and different steps in tap dancing are introduced, along with a comedy-acrobatic skit by the Gaudschmitz Brothers. Rubino and his Greater Orchestra, in their semi-classical program, were not quite so good as usual.

AWAY FROM THE GRIND

The fraternity social season opened in earnest last week-end, with five fraternities holding parties of one sort or another. By the look on the postman's face as he carries his burden these days, dances are to come thick and fast from now on.

PHI BETA EPSILON

At the Phi Beta Epsilon House last Saturday night an unusual dance took place. The dance was essentially a closed affair, informal in nature. There were about fifty men and thirty girls present, and the Technicians furnished the music. The informal, friendly spirit of the dance was a welcome change from the usual fraternity dances.

PHI KAPPA

One of the two open dances of last week-end was at the Phi Kappa House. About one hundred couples danced to the music of the Technicians, while old acquaintances were renewed. The affair was a simple formal and broke the ice of the season's frolics in a creditable manner.

PHI KAPPA SIGMA

The annual Founder's Day Banquet of the Phi Kappa Sigma Fraternity was held at the chapter house last Saturday evening. About fifty were present, and the occasion was formal. After the banquet, several of the founders spoke to the chapter, following which the alumni met the pledges.

PSI DELTA

Dave Isen's Green Gables Orchestra furnished the music for the Psi Delta

Charles Edison '13, Son of Famous Inventor, Noted Financial Engineer

Land Already Acquired for New Colossal Structure in New York City

Thomas Edison has long been able to devote his time completely to his creative science for he knows that the family's financial future is in safe hands, namely those of Charles Edison, his son. Charles Edison is not an inventor in the usual sense of the word but he is an inventor in financial organization.

Little has been written about the Edisons, father and son—it is not a publicity-seeking family, rather, the Edisons shun it, especially the airing of the intimacies of their lives. The love of Thomas A. Edison for Charles, and Charles' devotion to his illustrious father are things, as Colonel Lindbergh would say, "that have nothing to do with the future of aviation."

Charles Edison was born at Llewellyn Park, West Orange, New Jersey, in 1897. He attended the Carteret Academy at Orange and the Hotchkiss School at Lakeville, Conn., in 1909 he entered Technology, taking course IX and graduated in 1913. Five years later he married Miss Caroline Hawkins of Cambridge, Mass. Today he is president and chief operating executive of Thomas A. Edison Inc., including Edison Phonograph Distributing Co., Canadian Edison Phonograph Ltd., Edison Wood Products, Inc., Edison Storage Battery Co.; President of the Edison Portland Cement Company, E. K. Medical Gas Laboratories, Inc., The Ediplate Corporation; Director of Publishing Company of the Oranges and Maplewood.

Accepts Fatherly Advice

Charles Edison, like Lincoln's son, goes the even tenor of his way. He wisely conserves the financial resources created by the father's genius, but not for a minute does he bask in the light of public acclaim. Occasionally some word of his slips into print. When it does it serves merely to reveal something new in the character of the many-sided senior Edison. Last spring for example, Charles said in speaking of his business enterprises: "Never think for a moment that father doesn't know what's going on. He's chairman of the board. Read this letter. I got it when I had submitted a half-dozen matters to

father." Charles' father had written: "But Charles, I have always found it best to take up one thing and do it quickly and settle it, and not go over a lot of things at once."

Young Edison is tall, well-built and clean-cut, his dark hair slightly tinged with gray. He went to work in the Orange, N. J., plant in 1913 to "learn the business from the ground up." His starting salary was \$35 a week. His first assignment from his father was this, "Go out to the plant and find out what a disc record costs." He found that out. He learned other things so thoroughly that he was made an executive. He handled the personnel and evolved a plan of decentralized management and centralized control. He proved himself to be an able executive, and to have like his father, "a source mind."

While at Technology the younger Edison was active in the Walker Club and is a member of the Delta Psi fraternity.

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formal last Friday evening. The house was decorated in a colorful futuristic manner, and there were one hundred and fifty or more couples present. The dance was pronounced a success, and everyone seemed to be having a good time.

(Continued on Page 4)

Statement of Ownership

Statement of the Ownership, Management, Circulation, etc., Required by the Act of Congress of August 24, 1912.

of THE TECH, published tri-weekly except college vacations at Cambridge, Mass., for Oct. 1, 1928, State of Massachusetts, County of Middlesex.

Before me, Notary Public in and for the State and county aforesaid, personally appeared G. Smith, who, having been duly sworn according to law, depose and say that he is the Business Manager of THE TECH and that the following is, to the best of his knowledge and belief, a true statement of the ownership, and management of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912 embodied in Section 433, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the General Manager, Editor, Managing Editor and Business Managers are: General Manager, D. T. Houston; Editor, W. F. Howard; Managing Editor, G. Connable; Business Manager, G. Smith, all of Cambridge, Mass.

All equipment owned by THE TECH TRUST FUND, Cambridge, Mass., and rented by the Current Volume.

Officers: Mr. H. E. Lobdell, M. I. T., Cambridge, Mass.; Mr. Winward Prescott, M. I. T., Cambridge, Mass.; Mr. H. D. Peck, 99 State St., Boston, Mass.

3. That the above bondholders, mortgagees, and other security holders owning or holding 1 per cent. or more of total amount of bonds, mortgages, or other securities are: None.

4. That the two paragraphs, next above, giving the names of the owners, stockholders, and security holders contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements and embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders do not appear upon the books of the company as trustee, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds or other securities than as so stated by him.

5. That the average number of copies of each of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is—(This information is required from the daily publications only.)

G. Smith, Business Manager.

Sworn to and subscribed before me this 15th day of October, 1928. William Jackson, Notary Public. (My Commission expires October 31, 1935.)

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Gym Team Rally Is Planned For This Afternoon

Forest, Formerly of Navy, Will Assume Duties as Coach At Technology

This afternoon at five o'clock the Technology gym season will get under way with a mass meeting to be held in Walker Memorial Gymnasium. All men interested in gym and all freshmen planning to substitute this sport for P. T. are expected to be present. The meeting will be addressed by Captain Wells, Manager Straley, and Coach Forest.

Forest is a new man on the Gym team staff this year. He comes to Technology after having competed for the Navy for several years. While at Annapolis, he was proficient on the parallel bars and was an all-round competitor. Forest is coaching at Technology on an amateur standing. Captain Wells will speak to the candidates at the meeting. Wells holds the Eastern Intercollegiate High Bar, and New England Intercollegiate High Bar and All-round championships. He has been on the Varsity for two years and was out for gym as a freshman.

VARSITY AND FROSH LOSE TO DARTMOUTH

Freshman Booters Make Freak Goal for Opponents in First Quarter

(Continued from page 1)

foot and Cooper was shifted to center half.

J. A. Mishart of Weymouth, Mass., umpired both games and said that the Varsity game which began at 3 o'clock was the fastest collegiate game he had refereed in two years. He went with the Technology squads in the bus, and admitted that he had a lot of running to do.

In the freshman game which commenced at 1 o'clock Technology started off with a drive toward the Green goal which was stopped by Fitzgerald. Mayer then halted a Dartmouth attack and Sinkervic of M. I. T. just missed a hard shot. When Dartmouth recovered control of the ball and brought it down the field it accidentally struck the head of one of the Technology backfield and went through the goal. The half ended without further scoring.

On the opening of the second half Technology pressed the Dartmouth goal but poor shooting prevented the scores. Finally Hitchcock made a shot from close range and scored, after he had got around Mayer of Technology who held the forward line in check previously.

The entire soccer squad went up in a bus and it took 7 hours including a stop in Manchester for supper. Most of the men were put up in the Field House for the night and the morning was spent in ambling about the campus. After the games the group left immediately for Boston and arrived, most of them asleep, at 2 o'clock Sunday morning.

The lineups were as follows:

M. I. T. VARSITY **DARTMOUTH**
 Wyman, goal goal, Biesel
 Hawkins, rf rf, Perkins
 Rieh, lf lf, Stark
 Cooper, rrb rrb, King
 Fragiaco, chb chb, Stone
 Newman, lhb lhb, Morr
 Schultz, or or, Richardson
 Velez, ir ir, Egar
 Kashemsanta, c c, Stollmeyer
 Youngson, ll ll, Nichols
 Tbulayamonkal, ol ol, Schmitz
 Substitutions, M. I. T. Ryan for Cooper,
 Cooper for Fragiaco, Serrallach for
 Youngson, Axford for Serrallach. Dart-
 mouth, Allan for Kink, Holden for Allan,
 Gifford for Stone, Allan for Gifford.
 Referee, J. A. Mishart, Weymouth,
 Mass.

M. I. T. FRESHMEN **DARTMOUTH**
 Mayer, goal goal, Zimmerman
 Kessler, rf rf, Placius
 Haas, lf lf, Fitzgerald
 Conway, rrb rrb, Schulte
 Snow, chb chb, Robinson
 Bateman, lhb lhb, Loose
 Flint, or or, Hitchcock
 Way, ir ir, Mandt
 Sinkervic, c c, Barkee
 Handley, ll ll, Bruchner
 King, ol ol, McCormack
 Substitutions
 Referee, J. A. Mishart, Weymouth,
 Mass.

STUDENT DIRECTORY PROOFS ON DISPLAY

Proofs of this year's student directory are now on display in the Main Lobby, in Walker Memorial, and other places. All students should examine these proofs to ascertain whether his name, course, class, and address are correctly printed. If not he should make the necessary corrections on the cards supplied for the purpose, and mail them at once to the Publications Office, by depositing them in any Institute mail box. All students are urged to do this as promptly as possible, as the proofs will not be exhibited after Friday of this week.

UPPERCLASSMEN JOIN ADVANCED ROTC UNIT

Approximately two hundred and ninety-three students have enrolled this year in the six branches of the advanced R. O. T. C. Service offered by the M. I. T. Military Science Department, to Juniors and Seniors or others who have satisfactorily completed the two year basic course. Probably the most popular branches of the service judging from the numbers enrolled are the Corps of Engineering, the Ordnance Unit, and the Coast Artillery Corps, which latter has, however, dropped in popularity with the incoming juniors.

The Air Corps, which showed such a large increase in registration last year, shows a small decrease in the Junior enrollment this year. Large gains in enrollment have been made by the Chemical Warfare, and Ordnance Units, while the largest actual decrease in enlistment comes in the Coast Artillery Corps and the Signal Corps.

In all, one hundred and fifty Juniors have enlisted as compared with the Senior enrollment of one hundred and forty-three, and last year's Junior enrollment of 140. Last year, too, only 280 men were enrolled as compared with the 293 this year. The figures are as follows:—

Unit	Seniors	Juniors
Coast Artillery Corps	34	26
Signal Corps	15	9
Ordnance Unit	24	32
Corps of Engineering	28	34
Air Corps	24	21
Chemical Warfare Unit	18	27

Freshmen who want to substitute this sport for P. T. may do so by signing up in McCarthy's office before October 25. Four freshmen assistant managers are also needed to compete for the position of Sophomore assistant manager.

Dolloff Aids Forest

Norman Dolloff will assist Coach Forest as coach of tumbling. Dolloff was a Varsity tumbler last year but is ineligible to compete this year.

All freshmen who plan to substitute gym for P. T. must do so before Friday, Oct. 25 at Henry P. McCarthy's office in Walker Memorial. This year a freshman team will be organized in gym if enough men report to make a schedule of meets worth while. All men who wish to compete for the positions of freshman assistant managers are requested to report to Manager Straley and to be present at the meeting to be held this afternoon.

Among the unusual features which make college life more interesting at Brigham Young University is the annual "Autumn Leaf Hike", which is held about October 1st. On the day appointed the entire student body assemble and climb the side of Mount Timpanogos. After arriving at the summit, they have a thrilling slide down the other side. The whole trip, from the standpoint of sheer enjoyment, is decidedly worthwhile and unique among the practices of American colleges.

INSTITUTE TO PAY TAXES

(Continued from page 1)
 by these institutions prior to July 1, 1928, which could be claimed to be legally exempt from taxes, will not be withdrawn from to a greater extent than 10%.

For land acquired after July 1, 1928, on which exemption could be claimed, the universities will pay a sum each year equal to the rate of taxation upon similar land at the time the land was bought.

This settlement is the work of a committee appointed by Mayor Quinn of Cambridge. On this committee were President Lowell of Harvard, Everett Moss, Treasurer of Technology, and John Lowes, Treasurer of Radcliffe.

Freshman Eleven Loses To Strong Middlesex School

Boys Win Fourth Straight Game 27 to 6 at Concord On Saturday

Playing their first game of the season Saturday afternoon, the Technology freshmen met the powerful Middlesex eleven at Concord and lost by the score of 27 to 6. The inexperienced yearling team made a good showing against the Concord school, considering the fact that it was the fourth win for their opponents in a season that has brought forth no defeats to date. Middlesex has piled up a total of 70 points, against six for their opponents, those six points being made by M. I. T.

Nacey Stars

Two of the Middlesex touchdowns resulted from 30-yard runs by Nacey, who played right half-back. These both occurred in the first half. The Engineers made their score in the

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 A Good Hot Supper
THE MOHICAN CAFETERIA
 Service the Best of Any and especially for Dorm Students
 Mass Ave. opp. Aeronautical Bldg.

third quarter, after being held for downs on the Middlesex 10-yard line. Cooper, Technology left tackle, recovered a blocked punt behind the goal line for a touchdown.

The remaining scores were made by long runs, one by Marvin who ran through the line 13 yards, and the other by Borden who circled the end for 35-yards.

The summary:
M. I. T. FRESHMEN **MIDDLESEX**
 Lovejoy, re le, Picke (Capt)
 Cashman, rt rt, Shreve
 Shepard, rg rg, Wise (Junkin)
 Bates, c c, Raff (Ware)
 Kidde, lg lg, Eaton
 Cooper, R rt, Burton (Locke)
 Sharp, le re, Prouty (Lee, Black)
 Newman, qb qb, Doolittle
 Paine, rrb rrb, Marvin (Fuller)
 Schwartz, lhb rrb, Nacey (Borden)
 Thompson, fb fb, Cook
 Touchdowns by Nacey, Cook, Cooper,
 Marvin, Borden. Points after touchdown
 by Nacey, Borden, Doolittle.

Walton Lunch Co.
 44 SUMMER STREET
 242 TREMONT STREET
 6 PEARL STREET
 1083 WASHINGTON STREET
 424 TREMONT STREET
 30 HAYMARKET SQUARE
 629 WASHINGTON STREET
 139 CONGRESS STREET
 8-9 TREMONT ROW
 332 MASSACHUSETTS AVE.
 19 SCHOOL STREET
 437 BOYLSTON STREET
 34 BROMFIELD STREET
 540 COMMONWEALTH AVE.
 204 DARTMOUTH STREET
 105 CAUSEWAY STREET
 ALLSTON
 1215 COMMONWEALTH AVE.
 Nearest Walton's Restaurants to
TECHNOLOGY, are
78 MASS. AVENUE
1080 BOYLSTON STREET



...in a cigarette it's **TASTE!**

"No USE CRYING over spilled milk." Some smokers start at the top—others have to "smoke their way up."
 But if you haven't been getting your share of aroma, flavor, richness—now's the time to try the short-cut. In a cigarette it's taste; in Chesterfield it's

"TASTE above everything"



MILD... and yet THEY SATISFY

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FINE TURKISH and DOMESTIC tobaccos, not only BLENDED but CROSS-BLENDED

NOTICES - ANNOUNCEMENTS Of General Interest

Colloquium Mr. J. Ormondroyd
Monday, October 21 and Tuesday, October 22, 2 P. M.,
Room 4-213

The first colloquium of a series of three on "Scientific Aspects of Design Problems in Large Electrical Power Apparatus" will be conducted by Mr. J. Ormondroyd of the Westinghouse Electric and Manufacturing Company. The subject will be "Vibration Problems of Electrical Machinery." The colloquium is open to members of the instructing staff, graduate and senior students and the junior Honors group.

Hydraulic Turbines Dr. Ing. D. Thoma
Monday, October 21, 2 P. M., Room 1-190

Dr. Ing. D. Thoma, Professor of Hydraulics, Water Power Machinery and Water Power Plants, will present the seventh lecture in the series on Hydraulic Turbines and Related Subjects in Water Power Plant Design. The topic of this lecture will be "The Hydro-electric Plants of the Mittlere Isar A. G. and Experimental Researches for them." The lecture will be illustrated by lantern slides.

The lecture is open to students and members of the instructing staff.

NOTICE

HI, FROSH!

THE TECH issues forth a call for candidates for positions in the circulation department. Further promotion from circulation manager leads to business manager or general manager. Call at 302.

CALENDAR

Monday, October 21, 1929

5 P. M.—Gym Team Mass Meeting, Walker Gym.

Tuesday, October 22, 1929

6—9 P. M.—Alpha Chi Sigma Dinner, Faculty Dining Room, Walker
8—11 P. M.—Menorah Society Smoker, North Hall, Walker.

Notices

FRESHMAN BOXING

All men who wish to substitute boxing for P. T. must sign up before October 25, in Room 335, Walker Memorial. Men interested in trying out for the position of Assistant Manager are requested to leave their names at the Boxing desk in the M. I. T. A. A. office, at once.

FRESHMAN TRACK

All freshmen who intend to substitute track for P. T. and who have not yet signed up are requested to do so immediately in Henry P. McCarthy's office in Walker Memorial. This must be done before Oct. 23 in order to receive credit.

FLOOR POLISHER LOST

The floor polisher of the T. C. A. organization and has not yet been returned. Will the party who has it return it immediately to the T. C. A. office in the basement of Walker.

ASSISTANT MANAGERS

The M. I. T. A. A. is in a position to place thirty freshmen and ten Sophomores as assistant managers in the different sports at the Institute. New men who have stated a preference for A. A. work on the T. C. A. cards and who are not already engaged in some activity should call at the M. I. T. A. A. office any evening at 5:00 o'clock.

RIFLE TEAM

All men interested in the M. I. T. Varsity Rifle Team are asked to report to the range on Wednesday and Friday from 1 to 5 o'clock.

MISSING LIBRARY BOOKS

A number of books, taken in the spring term from the shelves in the Faculty Room, Walker Memorial, have not been returned. Among these are: "The Confessions of Jean Jaques Rousseau" in four volumes; an attractive edition bound in green morocco that formerly belonged to a private library on Beacon Hill. Another book of note is Goethe's "Faust," the sixth volume of a set of Goethe's Works in a specially printed edition which cannot be duplicated. The seventh volume of Byron from a set of seventeen volumes is also missing. There is one book missing from the Works of Barrie and from Conrad, Defoe, Emerson, Hawthorne, Maupassant, Anatole France, Tolstoy and Perceval.

Mrs. King asks that they be returned to her at the Walker Memorial Library.

FRESHMAN SWIMMING TEAM

All freshmen who wish to substitute swimming for P. T. must procure their medical examination cards and sign up at H. P. McCarthy's office by Friday, October 25.

Freshman managers are requested to report to Manager Dean at the M. I. T. A. A. office between 5 and 6 o'clock on any day during the next few weeks. In case of his absence, a note bearing the name, address, and phone number of the candidate should be left on the swimming manager's desk.

DIRIGIBLE USED TO AID RADIO IN RESEARCH

Sommerfeld Theory Investigated at Round Hill Airport During Summer

(Continued from Page 1)
constant altitudes. A transit was used at all times to determine the angle of the ship with the central station. Some thousand field measurements have been made on wave lengths of fifteen, and seven and one half meters. When the data has been worked up and interpreted a complete knowledge of the distribution of radiated energy about a vertical antenna and its dependency upon the conductivity and the dielectric constant of the ground will be obtained.

In all of the tests to determine the complete spacial distribution of radio waves exclusive use was made of the Mayflower which was loaned to the Round Hill Research by the Goodyear Zeppelin Corporation. One of five similar aircraft owned by the company, it is 127 feet long, has a maximum diameter of 35 feet and employs two Siemens-Helske motors. It uses 86,000 cubic feet of helium gas, is designed to carry five passengers, has a cruising speed of about 50 miles an hour and a cruising radius of about 500 miles. The ground crew consisted of 15 men of whom 12 were from the Institute. The airship operated under no regular hours but went up when the weather permitted. During the summer many parts of New York, New Jersey and New England were reached.

The Mayflower operated from the hangar built this summer on the estate of Colonel E. H. R. Green at South Dartmouth, which is one of the most modern of the private airports. At night the borders of the landing field are illuminated by flood lights placed at short intervals. A revolving beacon light on top of the hangar and another placed on a nearby lighthouse furnish beams which mark the airport from the sky. Two large flood lights of seven and five million candlepower are stationed next to the airship hangar.

Plans are now being drawn up for the building of a 1000 foot tower which, when completed, will be the highest in the world. This structure, which provides the base for an airplane beacon, will reach up to highest clouds under normal conditions. Accordingly the beacon lights will be built so that they may be raised or lowered to operate above or below the clouds. White light will be used since it has been proved superior to any form of colored beam. This arrangement is expected to provide a beam that will be visible for about 100 miles. A power station located at the hangar supplies the power for all night lights.

The airport from which the radio tests were conducted will soon be one of the most modern of its kind. A hangar is now being built for seaplanes and another will soon be started which will house land planes. Two 3500 foot runways at right angles to each other provide a smooth surface for landing.

The men in charge of the radio experiments at South Dartmouth last summer expect to take considerable time to interpret the data recently obtained. When further measurements are to be taken more complete equipment will be available.

Sophomores and Freshmen Clash In Dorm Battle

Annual Interclass Struggle is Declared a Draw After Hour's Fight

A pitched battle which many of the upperclassmen present claimed as reminiscent of the good old fashioned water fights, came as a fighting finish to the last of the Dormitory freshman meetings, held in Ware Lounge last Thursday evening. Although the attendance was not as large as might have been expected, the members of both Sophomore and freshman classes who did attend the final battle in Runkle were rewarded with a grand old tussle.

Following the regular meeting at which Ben Hazeltine, '31, and Harold Plant '30 gave short talks, and several freshmen gave involuntary solos, the freshmen were ushered out in front of Runkle to give a concert. Hardly had they started, when down came what was literally an ocean of water from the Runkle balcony on the second floor. Tomatoes flew through the air, and water bags appeared from all directions. The freshmen ignominiously fled out around the corner of Crafts.

But they came back soon after, when many of the Sophomores had left for their studies. Not all of the freshmen returned, it is true, but those who did, returned with a vengeance, incidentally outnumbering the Sophomores by about three or four to one. Up in Runkle on the fourth floor the two groups met, and for almost an hour the struggle waxed fast and furious, with Sophomore experience pitted against freshman numbers, while staid and steady Runkle inhabitants looked on the carnage with dismay.

Finally, with Runkle practically afloat, with both sides much the worse for wear, and after an endless number of compulsory showers had been administered, the groups agreed to conclude the festivities. A truce was declared for the moment, everyone shook hands, and all dragged themselves home to wonder why on earth there were lessons to do. Incidentally, those freshmen who remained timidly at home during the celebration received their merited reward shortly afterward, when the Sophomores had recovered their equilibrium.

MANY CHURCHES HAVE STUDENTS' SERVICES

Services and discussion groups especially intended for students are being held by many of the churches in Greater Boston on Sunday afternoons and evenings. The names of these churches, and the hours of their services, are in their advertisements in the "freshman Bible", and some are also posted on various bulletin boards about the Institute.

All students are cordially welcome to any of these churches.

TECHNIQUE TO TAKE PHOTO APPOINTMENTS

Picture appointments for Technique may be made, starting tomorrow, in the Main Lobby. Representatives of Technique will be there from 9 to 10 o'clock in the morning, and from 4:30 to 5:30 o'clock in the afternoon.

The Institute Photographic Service, which has been awarded the contract for all photographic work of the 1930 Technique, will start taking the pictures November first. A \$1 deposit is due at the time of the sitting.

Cat Takes Residence On Comforting Beds

During the past few days, many of the dormitory men have found a white feline specimen in the form of a cat, purring as it rested comfortably on the bed. The cat was located in rooms in both the new and the old dormitories leaving its innumerable hairs upon the clothing, covers, and other points of contact on which it found unmolested tranquility. After being ousted a number of times it found pleasure in walking around the fifth floor ledge of the new dormitories, hunting refreshments and a warm room.

Proposed Skyscraper Will Be Three Times as High as Woolworth Tower

Technology Graduate Began as Laborer—Now President Of Corporation

The most colossal structure ever attempted by man is planned for lower Broadway, just northwest of City Hall. Land has been acquired to the extent of two city blocks for this gigantic building which will tower more than a quarter of a mile above the street. Its tremendous roof will be equipped with a landing field for airplanes.

David Schulte, chain store magnate and Charles F. Noyes, realtor, are the promoters of this ultra-modern project, whose ultimate cost will probably be close to \$100,000,000. The population of tenants and employees will be about 50,000 and it is estimated that 200,000 people a day will pass through this giant among skyscrapers. This modern Tower of Babel with an acre of roof 1600 feet in the air will be three times as high as its neighbor the Woolworth Building, and 600 feet higher than the impressive Eiffel Tower in Paris, which thus far is the loftiest structure man has produced.

It is understood that Walter W. Ahlschlager, who has designed many of the big Chicago Buildings is now

working on the plans of the new structure. He intends to smash building construction records of every nature. The architect figured that under present New York building and zoning laws there was practically no limit to the height to which the building might be carried. The present specifications call for a rental area of 5,000,000 square feet of floor space and a total volume of 70,000,000, cubic feet.

The foundations of the great edifice are to be carried down five stories beneath street level, to reach bedrock, on account of the tremendous height and weight of the building. From the street the building will appear as a gradually tapering mass extending upward 100 stories, on which will be a tower of 50 stories and possibly more. Sixty elevators will be required to provide transportation within the structure and 25,000 windows to admit daylight. Engineers computed that the upper stories of the building might have a side sway of twelve inches or more in windy weather.

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NEW INSTRUMENTS

LESSEN DANGER OF FOG TO AVIATORS

Former Hazardous Stunt Made Easy Using New Type Of Altimeter

BLIND FLIGHT POSSIBLE

Considerable importance is being attached in aviation circles to the recent "blind flight" of Lieutenant James Doolittle at Mitchel Field, Long Island. This flight was made possible by the development of three instruments, in the design of which Professor William Brown of the Department of Aeronautics had a large part. These instruments are the "visual radio direction finder," the "horizon indicator" and the "barometric altimeter."

The visual radio direction finder consists of two reeds vibrating in resonance with a new short range beacon at Mitchel Field. When the plane is directly in the path of the beacon the two reeds vibrate uniformly. As soon as the plane veers from its course, one reed vibrates faster than the other. The closer the plane is to the beacon the more intense is the vibration.

The artificial horizon indicator shows instantly at what angle the plane is flying in relation to the ground, whether and how the wings are tilted, whether the nose is up or down, and to what degree.

The barometric altimeter shows, with an error of very few feet, how far above the ground the plane is flying at any instant. This instrument differs considerably from the ordinary type of altimeter, which tells the height above sea level. Because the action of the barometric altimeter depends on the barometric pressure, a variable factor, a ground crew was obliged to keep Lieutenant Doolittle informed of the air conditions by radio. More independent instruments are in the course of development, the sonic altimeter by Doctor Elmer Sperry, and the radio altimeter by the General Electric Company. They will sensitively record the time and therefore the distance which a sound or radio impulse travels from a plane to the ground and back.

AWAY FROM THE GRIND

(Continued from Page 2)

SIGMA CHI

That the popularity of the small closed dance is mounting is evidenced by the increase of them this year. The Sigma Chis presented their pledges to the alumni of the chapter last Friday night at an affair of this sort, and the "family" aspect was evident.

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Tobacco's at its best in a pipe. It gets a chance to be itself there—to loosen up as it comes to life, to expand and take in air and glow. Only the choicest leaves get that chance, moreover, for pipes tell the truth about tobacco. Choice leaves, choice blends, and mighty careful handling. Edgeworth comes up through eleven distinct processes before we're willing to pass it on to you.

If you keep on missing all this, that's your fault—for we're waiting to send you your first pipeful of Edgeworth. See the coupon? Fill it out, get a good pipe and the postman will bring you a neat little glad-to-meet-you packet of good old Edgeworth.

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