

## PLANS COMPLETED FOR T. C. A. DRIVE TO START MONDAY

Fraternities and Dormitories  
Will be Canvassed on  
Monday Night

### CHARTS TO BE DISPLAYED

Money Given to T. C. A. To Be  
Honored Toward Y.M.C.A.  
Membership

At its meeting yesterday afternoon the executive committee of the T. C. A. drive completed the final plans for its campaign. About 100 men will take part in the drive for \$2,500 which it is hoped will be raised by Thursday night when the drive closes.

On Monday night solicitors for the drive will canvass each of the Dormitories and at the same time there will be an exchange of representatives from the various Fraternities. These men will make a short address after dinner, after which the actual soliciting will be taken care of by each fraternity's own representative.

Tuesday morning it is planned to display charts showing statistics regarding the contributions of the Dormitories and Fraternities. These will not show individual amounts, but will indicate the percentages in each case. This is the same procedure that has been followed in previous years.

Buttons for Contributors  
W. D. Birch '27 has announced that buttons will be attached to the envelopes which will be handed out in lecture rooms. In former years it has been the custom for contributors to obtain their buttons in the main lobby. Cash donations are more desired than pledges, since they simplify the work, but pledges to be redeemed before December 1 will be accepted.

In the three upper classes there will be a man in charge of each course. Working with him will be speakers and men who will accept the contributions.

One feature of the drive is that a contributor may join either the Boston or Cambridge Y. M. C. A. with a reduction from the basic membership of either equal to the amount paid to the T. C. A. The cost of membership in the Boston Y. M. C. A. is \$5 and in Cambridge \$3. Last year the T. C. A. contributors were honored in the same manner by the two organizations.

## FIRST CONCERT OF CLUBS LAST NIGHT

Will Combine Fall and Winter  
Concerts This Season  
Into One Affair

Filenes' Department Store last night was the scene of the first Musical Clubs Concert of the new season. Two specialty acts were offered besides selections by the Tectonians, and the Banjo, Mandolin, and Glee Clubs.

Before the concert the Filene Entertainment Association gave a supper for the officers and leaders of the clubs. The specialties included a piano duet by C. W. Clay '26 and H. L. King '29, and a violin solo by G. W. Smith '26 accompanied by C. W. Bates '26 on the piano.

According to an announcement made by the Musical Clubs the Fall and Winter Concerts will be combined this year into a Christmas Party. The affair will be held on December 18 at Whitney Hall and the music will be furnished by the Tectonians.

The reason given by the management of the clubs for the combination of the two concerts is that the mid-year examinations make the Winter Concert impossible. The Technology-Dartmouth Concert and the Spring concert will be held as usual this year.

Blocks of seats for the Christmas Party will be reserved for the fraternities. The ticket sale will begin on December 1 and will be held in the Main Lobby. The concert will begin at 8:30 o'clock and continue until 10, when dancing will start and last until 2 o'clock.

## EDITORIAL

### NEED FOR MEN IN ACTIVITIES No. 2—Sports

**B**ELOW is presented statistical data of the standing of the different sports as regards men out and men needed. It is the second of a series of three showing the condition of institute activities and athletics.

	Number of Men Out	Total Number
	Freshmen Varsity	Needed
BASKET BALL	46 25	40
BOXING	26 9	150
CREW	65 36	110
FENCING	24 30	—
GOLF	— —	—
GYM	10 23	50
HOCKEY	— —	40
RIFLE	20 36	—
SOCCER	— —	—
SWIMMING	22 23	60
TRACK	65 30	250
TENNIS	— —	30
WRESTLING	22 20	90

(A dash indicates either the sport has not begun or that no more men are needed.)

The above figures were collected by the officials of the Athletic Association. It is clear which sports need men the most and which present the best opportunities. *It is hoped that the student body will take careful notice of these facts presented here because they give an excellent picture of the sports situation. Only by being aware of actual conditions can intelligent criticism and estimates be made.*

Watch This Space

## "Oil Industry Offers the Greatest Chance for Advancement" Says Lewis

### Great Demand for Technically Trained Engineers in The Industry

According to Professor W. K. Lewis '05, head of the Department of Chemical Engineering, the oil industry today offers more opportunity for rapid advancement to technically trained young men than any industry in the engineering field. This condition is due to the fact that there are few older men who have had the training necessary to solve the technical problems of the industry.

Up to ten years ago, crude oil was so cheap that it was not worth while to increase the efficiency of the process used for the production of gasoline. In recent years it has become necessary, however, to improve the process considerably, and a great demand has arisen for petroleum engineers.

Graduates in Oil Industry  
This demand for men is best illustrated by the number of Technology men that have entered this field. In the last four years, three professors of the Department of Chemical Engineering have gone with large oil companies. R. E. Wilson '16 has been with the Standard Oil Company of Indiana for several years; W. G. Whitman '17 has just resigned his position to go with that firm; and Leon W. Parson '13, has been with the Tidewater Company for some time. In addition, eight or ten members of the staff of the Research Laboratory of Applied Chemistry have been taken into large petroleum organizations.

Also there are many other Institute graduates prominent in the industry. David E. Pierce '17 is in charge of the research and development department of the Atlantic Refining Company, and has under him four X-A graduates. R. E. Haylett '15 is in charge of the technical department of the Union Oil Company of California, and W. T. Davis '21, who was formerly with the Louisiana Refining Company of Kentucky, is in the Barratt Company. J. M. Abrams '18 is vice-president of the Wilbur Company (Continued on Page 4)

### Announce Engagement Of Music Clubs' Head

At a dinner bridge held at Wellesley College Wednesday afternoon, the engagement of Miss Gertrude Franklin to William P. Lowell, Jr. '26, general manager of the Combined Musical Clubs was announced. Lowell, whose home is in Newburyport, is a member of Baton, Tau Beta Pi, and Scabbard and Blade. Miss Franklin, the daughter of Mr. and Mrs. John Franklin of Andover, is a Senior at Wellesley.

## NORRIS NOW BACK TO RESUME DUTIES

### Returns From Absence of Year Spent in Doing Work for Research Council

Professor James F. Norris of the Department of Chemistry has returned to the Institute after a year's absence pursuing work for the National Research Council.

Professor Norris was chairman of the Division of Chemistry and Chemical Technology of the National Research Council, and one of his chief activities was visiting research laboratories of chemistry with the purpose of establishing co-operation between laboratories and professors of chemistry in a number of educational institutions. He was also engaged in furthering co-operation of University investigation and study of the chemical fundamentals underlying the use and manufacture of petroleum products.

During the summer Professor Norris represented the National Research Council at the meetings of the International Union of Pure and Applied Chemistry which was held at Bucharest, Roumania where he was elected Vice-President of the Union for three years. He is now engaged in making arrangements for the next meeting of the Union to be held at Washington in September, 1926.

Professor Norris also represented the National Research Council at the celebration of the Royal Institution of Great Britain in commemoration of the one hundredth anniversary of the discovery of benzene by Michael Faraday. He was then made an honorary member of the Royal Institution.

## FOUR ORGANIC FILMS TO BE SHOWN TODAY

In addition to the two films: "Dynamite at Work", and "The Manufacture of Asphalt Roofing", the Organic Division of the Department of Chemistry will run a one reel picture "The Manufacture of Varnish", and a one half reel film "The Passing of the Oldest Power Mills of America", in 10-26 at 4:15 o'clock this afternoon. The film on varnish, furnished by the Murphy Varnish Co., of Newark, N. J., will describe the processes of manufacturing different oil and gum varnishes. The one half reel film was obtained from the Du Pont Company, and will be essentially of historical interest.

## FINANCE COMMITTEE OPENS COMPETITION

Competition for membership on the Finance Committee begins today for Juniors and Sophomores. The competition will be continued until the end of the term for Juniors, and until May for the Sophomores.

Two Sophomores will be retained as Junior members, from May of their Sophomore to May of their Junior year, and one of the successful Juniors will then be appointed chairman of the Committee, thus entitling him to a seat on the Institute and Budget Committees. The nature of the work is supervision of the financial transactions of all undergraduate activities.

All men who are interested should send a card with their name, class, address, and schedule to the Financial Committee, Walker.

## 1929 NOMINATIONS DUE TOMORROW

As Yet Only Six Papers Have  
Been Turned in at  
Room 10-100

Nominations for the freshman elections to be held next Wednesday are due in the Information Office before one o'clock tomorrow. As yet only six nomination papers have been turned in, the Elections Committee has announced, while last year there were 65 candidates for the various offices.

Eight offices are to be filled by the election, President, Vice-President, Secretary, Treasurer, two Institute Committee representatives, and two members of the class Executive Committee. Two of the six nomination papers already turned in are for the class presidency.

The signatures of ten sponsors are required on the nomination papers. The latter must be of the following form: "We, the undersigned members of the Class of 1929, do hereby nominate \_\_\_\_\_ for \_\_\_\_\_ of our Class. (Sponsors' signatures)" An acceptance of the nomination by the candidate must follow: "I hereby accept the nomination. (Signature of the Nominee)"

Interest in the election, according to the Election Committee, is becoming increasingly evident as the time limit for filing of nominations approaches. The committee wishes that every freshman inquire into the qualities of the various candidates, when they are announced next Monday, so that he will be capable of making a wise choice when the ballot is handed to him.

## Cooper to Address Civil Society On Passamaquoddy Tidal Project

### Scheme Would Get Electrical Power by Harnessing Fundy Tides

Dexter P. Cooper, chief engineer and promoter of the Passamaquoddy Bay tidal project, is scheduled to speak before the Civil Engineering Society tonight at 7:45 o'clock in Huntington Hall, Rogers.

Because of the widespread interest in the project, the meeting will be open to the public to the capacity of the hall. Laymen and engineers alike may hear the plan in detail.

Mr. Cooper was born in Minnesota and received his education in Switzerland and at the Royal Technical Institute at Karlsruhe, Germany. He was division engineer in the construction of the famous Keokuk Dam in the Mississippi River. His brother, also a leading engineer, was construction engineer in the Muscle Shoals project.

The "Quoddy" tidal project is a plan to harness the tides of the Bay of Fundy for the production of electric power. The estimated cost of this enterprise is between \$75,000,000 and \$100,000,000, and will take over four years to complete the work. Over 5,000 men will be employed and \$17,000,000 will be used solely for transmission lines.

Passamaquoddy Bay, the upper pool, contains about 100 square miles

## F. A. SCOTT TO BE THIS AFTERNOON'S ALDRED LECTURER

"Has The Average Engineer an  
Opportunity" to be The  
Title of Talk

### AWARDED WAR MEDAL

Scott Received Distinguished  
Service Medal for Work  
On War Boards

"Has the Average Engineer an Opportunity" will be the topic of the second Aldred lecture of the year, to be given this afternoon in room 10-250 at 3 o'clock. F. A. Scott will be the speaker.

Mr. Scott, being interested in education, has made a study of the subject on which he is to speak. The number of men graduated from engineering schools in this country each year is very large and the speaker will attempt to outline in his talk just how great a chance the average graduate of these schools has to succeed when he enters the business world.

He is well known in the industries as President of the Warner and Swasey Company of Cleveland, Ohio, makers of precision instruments and machine tools. He is also Director of the Cleveland Trust Company and of the White Sewing Machine Company.

During the war he occupied a prominent position as a member of the Advisory Committee of the United States Naval Construction Board and as chairman of the Munitions Standards Board and the General Munitions Board.

Was Awarded Medal  
Upon the conclusion of the war Mr. Scott was awarded the United States Distinguished Service Medal for "meritorious and conspicuous services in organizing, assisting, and as chairman of the above mentioned Munitions boards. "Thus he played an important part in the formation of the War Department's programs."

The Warner and Swasey Company, of which he is president, specializes in the manufacture of instruments of precision and machine tools and gauges for fine work. He is not himself a college graduate, his education being received in the Cleveland public schools supplemented by some private tutoring.

As usual Senior and graduate classes will be omitted during this hour in order that all of the students who wish to may attend the lecture. Anyone interested in the lectures of the Aldred series is invited to attend.

## CALENDAR

Friday, November 13  
3:00—Aldred Lecture, room 10-250.  
4:15—Chemical movies, room 10-250.  
5:00—Meeting of the free lances of the T. C. A. drive in the T. C. A. office.  
8:00—Meeting, Electrical Engineering Soc., North Hall, Walker.  
Monday, Nov. 16  
4:00—Meeting of the Fraternity drive solicitors at T. C. A. office.  
5:00—Section Leaders' meeting, room 2-245.  
Tuesday, November 17  
7:30—Smoker for new college transfer students, Faculty dining room, Walker.  
7:30—Mining Engineering Soc. smoker, West Lounge, Walker.

A Record of Continuous News Service for 44 Years



Official News Organ of the Undergraduates of Technology

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OFFICES OF THE TECH: News and Editorial—Room 3, Walker Memorial, Telephone, Univ. 7025; Business—Room 302, Walker Memorial, Telephone, Univ. 7415

SUBSCRIPTION PRICE, \$2.50 PER YEAR: Published every Monday, Wednesday and Friday during the college year

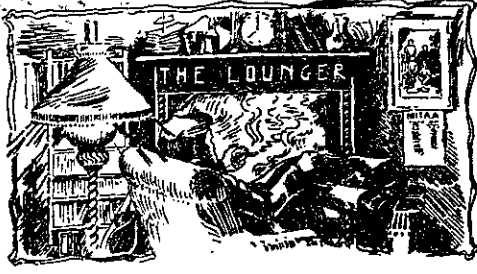
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The Lounger is going to the Al-dred lecture very early today. At the last one he had to stand, way up in the second balcony. He certainly was surprised to see how large the senior class has become, and what a large number of seniors are taking freshman drill. But it is always amusing to watch those who are out of place trying to appear at ease. Incidentally, for the benefit of these new seniors, it has become a custom for everyone to rise when President Stratton comes forward to speak.

The Lounger now knows how it feels to fall out of a fourth story window onto a pile of bricks, or to be run over by a steam roller, or to be fed slowly into a cement mixer. He has even discovered new bones in his body, for by their aches shall ye know them. In short he played football last Sunday morning in preparation for the great classic next Wednesday. For his part, he is perfectly willing to see the challenge that the Tech has given Technique, changed from a football game to a game of parchesi. Imagine the wild cheering from the gathered throng as Captain Owen throws the needed seven and sending Captain Brand home, wins the game. The Lounger's only consolation is that some of the enemy may be as sore as he is, if that is possible.

A noted critic, G. J. Nathan, in the "American Mercury" bewails the fact that present day audiences no longer contribute their share of the interest to theatrical performances as they have in past years. The poor actor is no longer discouraged by the audience, neither is the good actor as riotously encouraged.

Great minds travel in the same channels, for the Lounger has been considering the same question as it applies to the Institute's classes. Since he does not wish his criticism to be of the popular destructive type, he is making a few suggestions.

1. If the lectures of a professor become too deep to be understood, the class should inform him of the fact by loud vocal snoring.

2. When the lectures are not as interesting as it is possible to make them and do not contain at least ten jokes or other witty remarks, they could soon be changed by organized booing and hissing.

3. Whenever the instructor succeeds in explaining a difficult problem, he should be greeted by liberal applause.

4. If an instructor dismisses a class early, he should be given a "Tech is hell" cheer as soon as the class recovers from the shock.

Many other demonstrations suggest themselves that would make the classes far more interesting to the students. The professors would have to prepare better pictures in order to keep their tailor's bills within the limits of their small salaries. The percentage of students cutting classes would be the same as the percentage of the Harvard-Yale ticket holders missing that game.

The debasing influence of Field Day was strikingly noticeable in one incident that occurred during the struggle between the freshmen and Sophomores. Numerous Seniors, supposed to above the pettiness of class animosity and youthful exuberance, plunged into the tangled mass of humanity surrounding the decrepit automobile which was the Sophomore mascot, and joined with energy in the struggle.

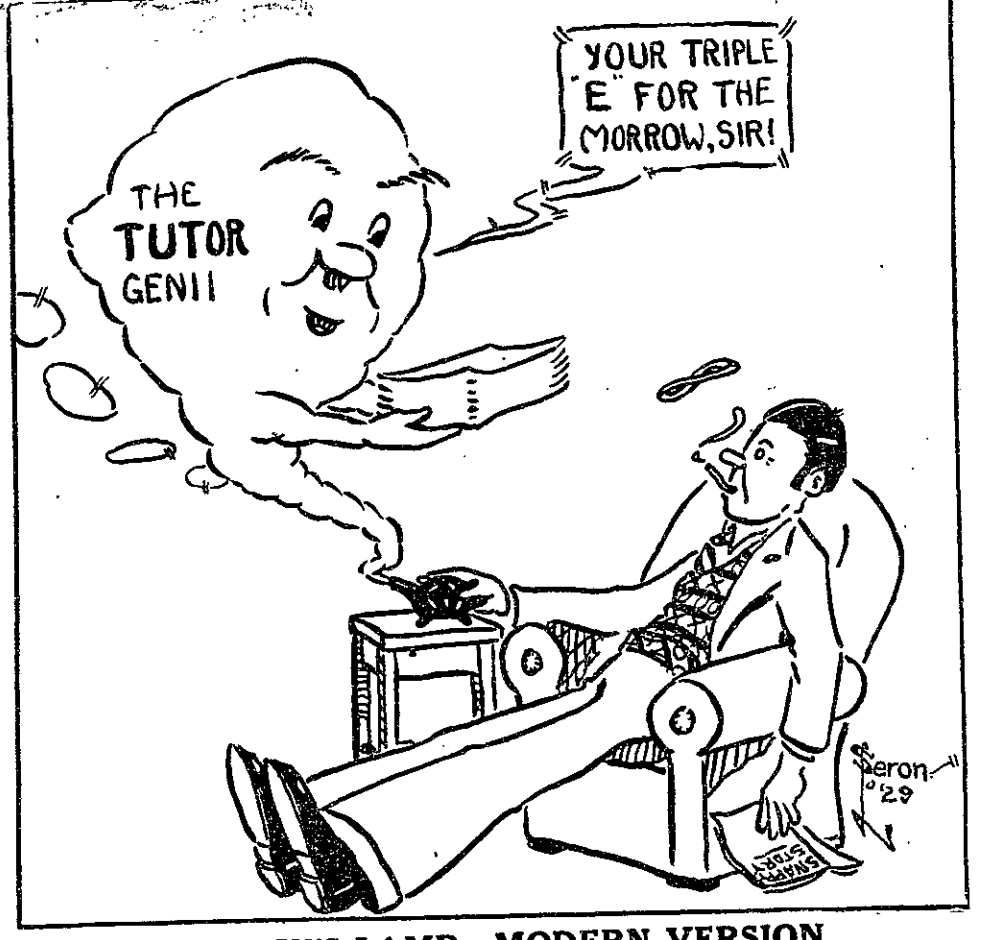
The Lounger looked closely to see what it was all about and discovered, among others, a member of the Dormitory Smoker Committee, who owns a one fifth interest in a dilapidated Ford, earnestly trying to salvage from the Sophomore mascot one of the fairly-good tires. And standing near him giving advice was the worthy president of the Technology Christian Association. Ave Bo. 'twas not only the lower classes that caroused!

CHURCH DIRECTORY

FIRST BAPTIST CHURCH IN BOSTON: Commonwealth Avenue and Clarendon Street; Sunday, 10:30 A. M.—Morning Worship; Sermon by the Minister; 12:00 Noon—Discussion Group, Topic: "Are all races getting a Square Deal in America?"

FIRST PRESBYTERIAN CHURCH IN BOSTON: Sunday, 10:30 A. M.—Morning Worship; 7:30 P. M. Evening Worship.

TEMPLE ISRAEL: Commonwealth Ave. at Blanford Street; Saturday, Nov. 14th, 10:30 A. M.—Rabbi Levi, "My Kindred"; Sunday, 11:30 A. M.—Rabbi Levi



ALLADIN'S LAMP—MODERN VERSION

THE OPEN FORUM

To the Editor: The table of men out for A. A. managerships which was published in the "Tech" Wednesday morning was a little ambiguous, and for that reason may have failed to accomplish its purpose. In the case of one sport the table said that three freshmen are needed and that three freshmen are out now. Some readers probably interpreted this statement to mean that the total number desired is three and that consequently no more men are wanted. The figures in the first column meant the number of additional freshmen desired, and not the total number. (Signed) R. M. Bigelow '27.

Columbus Ave. and Berkeley Street "This shall not pass away." Thursday, 8:00 P. M.—Young People's Society.

EPWORTH METHODIST CHURCH: Near Cambridge Common, Cambridge; Sunday, 10:45 A. M.—Morning Worship, Sermon by Minister; 12:10 P. M.—Epworth class for students; 7:30 P. M.—Young People's Service—Miss Charlotte Spencer—"The Living Age."

PROSPECT CONGREGATIONAL CHURCH: Near Central Square, Cambridge; Sunday, 10:30 A. M.—Morning Worship, Sermon by W. M. MacNair; 12:00 Noon—Two classes for Men; 7:30 P. M.—Evening Service.

BROOKLINE BAPTIST CHURCH: 11:00 A. M.—"The Good Shepherd"; 7:30 P. M.—"The Trivial and the Essential in Religion"; 6:00 P. M.—Meeting for Students and Young People.

The Fraternities Club

397 Commonwealth Ave. Boston; A Club for College Men; Grill open evenings—7. p.m. to 2 a. m.; Special Sunday Evening Suppers; A few rooms still available; Kenmore 6880

Mount Vernon Church

Beacon Street and Massachusetts Avenue; Ministers: Sidney Lovett, Everett Baker; 10:00 o'clock, Church School, Rev. Harold Hunting, Director; 11 o'clock, Morning Worship; Mr. Lovett will preach; 7:30 P. M. Young People's Society. Mr. Samuel H. C. Hu will speak on "China, Today and Tomorrow."

TUTORING—A NECESSARY EVIL

SOME courses at the Institute are presented so badly and so hastily, and a few are so difficult, that only very exceptional students can pass them without the aid of tutoring. No one can deny that such courses are "educational atrocities" unfair to the student and that they are travesties reflecting upon the curriculum. Since students scholastically standing in the first eighth of their class repeatedly and continually find it necessary to tutor in these particular subjects, no reasons other than those above can be given for the situation.

Another element enters into this complex situation. There is too much opportunity, too much temptation for instructors to assume a purely mercenary attitude and do all they can to increase their tutoring income. Some instructors, through their facility at anticipating quizzes, have built up a tremendous business; others have fared equally well because the students have had to come to them in order to find out something about the subject. So in general, it is a condition thrust upon the tutors by the students who see in it their only chance to pass the course.

Something needs to be done about it; frankly we do not know exactly what. At least the ill-presented subjects can be investigated and steps taken toward their improvement. Some need more time for presentation; others need better men to present them. There is one instructor in one of these more difficult courses whose reaching ability is nil, in the opinion of his class. What can students do with such a combination conniving against their getting a grasp of the course? The answer is, they seek out the financial wizards and purchase \$3.00 parcels of passing material. That is, having no other alternative, they buy the course.

UNDERGRADUATE AWAKENING

SINCE the opening of the fall term, undergraduates of New England colleges have shown a lively interest in the administration of their college affairs. Lately one observes an active discussion of college welfares by the undergraduates themselves. Strange enough, many of the more interesting discussions and innovations are centered in the restricted area of New England. It seems contrary to existing belief, that this wave of undergraduate administration of college affairs should originate in "conservative" New England.

Early in the fall of this term the Harvard Crimson appeared with its criticism of 40 courses in the academic curriculum. Probably the criticism itself was of little value to the student body; however, the underlying principle of the undergraduate criticism is of some importance. At present students at Williams are devising plans for a complete reconstruction of their college social life. A short time ago the Amherst undergraduates were discussing the problem of whether their Alma Mater should be permitted to expand. The question was finally settled by the ballots of the students. Since the beginning of the term, Yale undergraduates have been busied with discussions to abolish compulsory chapel exercises. The question is at present being settled by the votes of the undergraduates.

These are healthful tendencies and one can not help but think that these incidents in the New England Colleges may lead to a more democratic administration of college affairs.

THE DUCHESS OF THE TURKEY

THE people of the United States should rise to prevent the threatening conversion of our glorious republic into a monarchy. The customs and forms of the "divine right" empires are creeping into the government.

The recent incident of the "Turkey Girl" is but one of many similar instances which hark back to the court of Louis XIV. Then a person became a national figure as "the Count of the Undershirt" because he helped the king dress. Now a girl attains a national reputation by cooking a turkey for the president. The growth of the theory of "divine right" to rule is demonstrated by the statement made by the girl in apparent surprise that Mr. Coolidge was "just a plain man."

It is almost unbelievable to note that the papers consider such actions to be proofs of the democracy of the nation when they are so apparently the foundation for some great coup d'etat to raise a new Napoleon to power.

Tuxedo Suits In Particular!

WE EARNESTLY believe that comfort is the main point to be considered even in Fashion. And is it not a great point in any dress affair? Black and white must not necessarily be a slave to monotony.

We aspire to a summit of satisfaction ourselves in measuring a customer for his Tuxedo for we have a vision:—There is always at stake success and self-respect carrying a mutual responsibility. For dimlight or daylight we are prepared to Tuxedo the taste of any man of any type or proportion.

Moderate prices always prevail here.

LOUIS PINKOS; College Tailor-Maker of Men's Clothes; Sargent Bldg., 2nd Floor; 45 Bromfield St., Boston

TRY A BOTTLE AND TASTE THE DIFFERENCE!

The Walker Memorial Dining Room is now serving Walker-Gordon Certified Milk and Buttermilk. Clean, nutritious milk from "T. B." free cows. Do you know the taste of CLEAN raw milk? WALKER-GORDON MILK

# HANDICAP MEETS BEGIN TOMORROW

## Engineer Soccer Team Loses Close Informal Game to Harvard Team

### Entries Open to All Men Registered At Institute—Cup Award in Each Event

Now that Field Day is past history and the relay teams have disbanded their forces, the track management is concentrating its efforts on this year's series of handicap meets, the first of which is to be held tomorrow afternoon on Tech Field.

Entry signups have been posted in the track house ever since Field Day and according to the information gleaned from looking over the list of entries, there will be plenty of competition in practically all of the events. The high jump and hurdles seem to be the only events which have not a strong field entered.

#### All Men Given Handicap

These meets are open to any student at Technology, there being no eligibility rules in force to bar transfers or graduate students from participating in the handicaps. There will be many men entered who because of the transfer ruling are not eligible to wear the spiked slippers for the Cardinal and Gray this year.

Coach Hedlund of the track team wishes it understood that due to the system of handicapping the men, every man regardless of his previous experience, has an equal chance. The runners do not all start from scratch, but instead those men who have not had the experience which some of the veterans have, are given several yards advantage over the experienced runners, according to their inability to run.

#### Cup in Each Event

Saturday is probably the only time that the meet will be held on the cinders, as the others will come during the season when weather conditions necessitate running on the board track. A meet will be held about every other week during the winter months and the final contests will take place at the start of the spring season on the cinders.

There is a cup awarded for each event to the man who during the entire series of meets, has the highest number of points in that event. Last year there was a close battle in all of the events, with the result in most cases hinging on the last meet. Among the men who had signed up last night, in the half mile, are Capt. Leness, Cy Meagher, Charlie Tonry, K. A. Smith, Davidson and Al Kaufman. Capt. Leness should have the best year that he has ever had in the 660. Last year he copped first place in the New England's against a classy field and in the I. C. A. A. A. meet he gave George Marsters, the Georgetown flash, a run for his money.

Sol Brodsky, Martini and Stackelhouse are entered in the weight events and if their past performances are any criterion to go by, there should be a stiff fight for the cup. All three of these men have been practicing faithfully all fall at the shot and discus so that they will be in good shape for the meets next spring.

McClintock, the frosh harrier captain, will enter the New England games as one of the big favorites. The Reading boy has not been headed yet this fall. The only time that he was really pressed was in the Arlington meet when he finished about 25 yards to the good.

The frosh's chance of victory on Monday will be proportional to the work of their fourth and fifth men. It was a failure to come through in these positions that lost the Harvard meet. McClintock, Payson, and Worthen, have been consistently good performers on the yearling outfit.

Under the tutelage of "Jiggs" Rogers, THE TECH warriors are fast rounding into the condition that will enable them to walk roughshod over the humble and meek urchins of the 'Snique in the forthcoming battle royal on Tech Field next Wednesday.

As yet it is impossible to definitely say which of the grid machines will start the contest for THE TECH, as so far the four 'Varsity teams are fairly evenly matched. Due to this fact it is unofficially rumored that THE TECH will start a fresh team every period.

A comparison of the average weights of the two teams shows the balance to be strongly in favor of THE TECH. The warriors playing on THE TECH line average 160 pounds from end to end as compared with 123 the average weight of the puny youths representing the 'Snique while a fast backfield averaging a little under 170 puts the 'Snique ball fumble with a meagre 140 hopelessly in the background.

Due to the overwhelming success of last year's team in defeating Technicians' little urchins 0 to 6, THE TECH will once again employ the aerial attack made, famous by Knute Rockne, Jess Hawley, and THE TECH. One innovation from last year's game will be the shift of THE TECH from the muddle system to the use of signals. However due to poor memories because of very weak minds in the Technique backfield, it will be necessary for the 'Snique to continue using its muddled system.

At the last practice of THE TECH, 43 of the gridmen were out for a hard workout. After two hours scrimmage the team was given a half hour's skull practice. Because of their fine physical condition the pen wielders will continue to prepare for the battle until the last moment. Unfortunately, the 'Snique management has been forced to call off further practice for fear of further injuring the members of their team and thus obliterating their one chance in a million of winning the game.

Due to this pink of condition existing among THE TECH gridsters and the possibility of the 'Sniques becoming stale from their enforced layoff, the odds are greatly in favor of THE TECH. Nevertheless the news men are not taking the game too lightly.

### FIFTY CANDIDATES ATTEND INAUGURAL TANK PRACTICE

Cambridge Y is Scene of First Practice Session For Swimming Team

### MANY VARSITY MEN BACK

With fifty men reporting for the first practice of the year, the swimming team got under way for what appears to be a successful season. Twenty-five Varsity and twenty-five frosh candidates reported to Coaches Dean and Brown at the Cambridge Y. This is quite a few more than came out for the first practice this time last year.

With most of the Varsity candidates having had training under Coach Dean last year, little time was wasted in getting under way. Only two men that swam regularly last year were missing from the first practice: Armstrong and Kerns. Armstrong is not at the Institute this year, while Kerns was lost by graduation.

#### Men in Good Condition

There appeared to be several promising swimmers among the frosh, although there was no outstanding star as Grover was last year. It will be necessary for the frosh that have substituted swimming for physical training to get their class cards in by this afternoon, otherwise they will not receive credit for attendance. It is also necessary to report three times a week on Monday, Wednesday and Friday, if they do not wish to make up cuts in the regular P. T. classes.

Most of the Varsity men appeared in fairly good condition, having practiced considerably during the past summer. Ralph Johnson, leading backstroker of the team, will be out of the water for the first few practices due to a sore hand that makes it impossible for him to swim.

### Sports Desk

Between you and me and the lamp-post we fail to see where the Technique pigskin chasers have a ghost of a show in the annual slaughter next Wednesday afternoon. Although the Year Book men have been practicing faithfully for the past few weeks they seem to have been Brand-ed by the Gods of fate to go down in inglorious defeat at the hands of the fast, smooth-working, football organization which THE TECH will put on the barred field.

They say the Technique men should be good forward-passers because of their long experience in "passing the buck" but something more than ability at this art will be needed to win the game Wednesday.

When they outplayed Harvard in the second half of the practice game on Wednesday, the soccer team showed that they have developed into a rather strong aggregation.

### Soccer Team Scores Both Goals in Last Period of Fast Match With Crimson

In a fast game Wednesday night the Technology soccer team went down to defeat before the Harvard kickers by the bare margin of 3 to 2. The Engineers showed unexpected strength on the attack in the second period and scored both goals while holding the Crimson scoreless.

Moe and Martinez made the two counters for the Institute team while Parrott and Danhelian divided the honors for Harvard, Parrott getting two. One of the Harvard scores was a goal from a free kick, the ball sailing barely under the cross bar and eluding the hands of goalie Flynn. Moe and Arana were the outstanding players for the Engineers, Arana on defense and Moe on the offense. Crooks, a forward, played a stellar game for the Crimson.

Scoring in the first five minutes of play, the Harvard booters started off big and kept the Engineers on the defensive during most of the first half. Enger at left halfback for Technology, after being out of the lineup since the first game of the season due to a twisted ankle, limped noticeably and he was replaced by Badger.

#### Beaver Offense Weak

Time and again during the first period Crooks, a Harvard forward, took the ball from the shadow of his own goal posts and carried it down the field only to have the play broken up by Captain Arana or Young of the cardinal and gray. The Beaver offense did not seem to function the way it should have in this period, there being a noticeable lack of team work but the play was replete with sparkling individual footwork.

With several changes in the lineup, the Institute men started off the second period with a rush and there was a noticeable improvement in the attack, the passing working like clockwork. Marques was drawn back from the forward line to replace Kazazian at right fullback and Lynn took the inside right forward position which was vacated by Marques. Kao replaced Badger at left halfback. The play in

this half was mostly in Harvard territory and after missing many shots at the goal by the barest of margins, Moe finally slipped one by the Harvard goal tender and the ice was broken. The goal was the result of a neat bit of passwork. Hsin played a fast and hard brand of soccer and missed many chances at the Harvard uprights after carrying the ball close to the goal due to the sparkling defensive work of the Harvard backs.

The second cardinal and grey counter was the finale of a series of bombardments by the Technology forwards, Martinez being the successful man.

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**PRESIDENT STRATTON RETURNS FROM TRIP**

President S. W. Stratton returned Wednesday evening from a trip to New York and Washington. Leaving Monday evening, he attended a meeting of the National Committee on Aeronautics in Washington, and stopped in New York on business for the Institute. President Stratton was formerly chairman of the Committee. Yesterday afternoon, he entertained the instructing staff of the Department of Electrical Engineering and the Department of Physics at tea in his home.

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**Interest Aroused In Women Students At Technology**

**Most People Unaware That Women Students Enroll For Institute Courses**

Because the Institute Committee decided three weeks ago that in the future women might smoke at Technology dances, a great deal of interest has been aroused outside the Institute. As the Boston Transcript points out, the interest is not so much in the Institute Committee's approval of smoking by women, as in the little-known fact that a number of women students pursue technical studies here.

Of course the new ruling of the committee will have comparatively little effect on the girls who are enrolled at the Institute, for the outside guests of the men students make up the greatest part of the attendance at the dances. It is a matter of fact, too, that so far not a single woman, guest or otherwise, has ventured to take advantage of the new ruling. There remains, however, a matter that is of more interest to outsiders than the decision of the committee, and that is the women students of Technology.

**First Woman Student in 1870**

In 1870, five years after the founding of the Institute, the faculty was surprised to receive the application of Ellen Cooley Swallow for the degree of Bachelor of Science in chemistry. Dr. John D. Runkle, president of the Institute at the time, was greatly in favor of the admission of women students and in a letter to Miss Swallow said that he considered the introduction of ladies to technical studies "a consummation devoutly to be wished." Largely as a result of his attitude, the faculty voted to accept Miss Swallow as a special student and to "postpone the question of the admission of female students until the next meeting." This next meeting took place on Dec. 10, 1870, when it was resolved "That the admission of women as special students is as yet in the nature of an experiment; that each application should be acted on upon its merits, and that no general action or change in the former policy of the Institute is at present expedient."

In 1873, two years after her admission to the Institute, Miss Swallow re-

ceived her degree of Bachelor of Science, the first degree ever granted to a woman at Technology. Remaining at the Institute, she was appointed assistant in the chemical laboratory where, under the direction of Professor William R. Nichols, she began work in sanitary chemistry and soon became a recognized authority in this work.

It is chiefly through Miss Swallow's influence that women are welcomed to the Institute as they are today. In 1877 all departments were opened to women who were able to pass the entrance examinations and pay the fees. In 1895 there were seventy-five women registered for technical studies at Technology. This is the largest number enrolled at one time. The number at present is thirty-five.

**FRESHMEN HEAR DR. MORSE AT LECTURE**

**Says Men Deceive Themselves About Their Condition**

The men at the Institute 'kid' themselves in the matter of their health," said Dr. G. W. Morse at the freshman lecture yesterday afternoon.

"As long as they can walk around and attend lectures they think they are well," he stated. "Yet two out of every seven men examined this year had some serious physical defect," it was found. There have been classes formed for the unfit in the 509 men examined this fall.

Posture classes have been formed under the supervision of H. P. McCarthy, physical director. The doctor, looking over the audience, remarked that there was hardly a man in the room who was sitting properly, showing the need for the class.

A physical fitness class for the general improvement of men who are seriously underweight is being advised by Dr. B. E. Sibley and any men interested in bringing themselves up to the fifteen or twenty pounds needed to reach normal are invited to join. The average gain in last year's class was seven pounds.

A medical clinic is held daily from 8:30 to 9:30 and from 4 to 5 o'clock when the physicians in attendance give advice and treatment. Dr. Morse said that men are always welcome to confer with him or his colleagues at that time.

Dean H. P. Talbot '35 announced that next week's lecture will be "First Aid" delivered by Dr. L. W. Croke.

**Notices and Announcements**

**OFFICIAL**

**FRESHMAN CREW**

Contrary to previous notice all freshmen substituting crew for P. T. except the first freshman crew must report at boat house this week.

All freshmen should hand in class cards today.

**UNDERGRADUATE**

**TECHNIQUE FOOTBALL**

Due to the danger of injuries and the nearness of The Tech-Technique game, there will be no football practice for Technique Sunday or thereafter.

**ELECTIONS**

Nomination blanks for freshman class officers are due in the Information Office, tomorrow, before 1 o'clock. The form is outlined in the T. C. A. handbook.

**TRACK NOTICE**

There will be a handicap track meet tomorrow made up of the following events: 75 yd. dash, 150 yd. dash, 660 yd. run, 1 1-2 mile run, 45 yd. high hurdle, shot put, discus, and high jump.

**BOXING**

In order that the freshmen may receive credit for their P. T. attendance for the following week, their class card must be turned in to the physical training instructor before noon tomorrow.

**HOCKEY**

Hockey practice starts Monday at the Arena. Practice will be from 6 to 7 in the evening under the supervision of Coach Stewart.

**T. C. A. HANDBOOKS**

A limited number of this year's paper covered handbooks are available at the T. C. A. office for those who have not yet received them.

**MINING ENGINEERING SOCIETY**

Professor C. E. Locke will speak on "The Revolution in Ore Dressing" at a meeting of the Society to be held in the West Lounge of Walker Memorial at 8 on Tuesday, November 17.

**HOCKEY MANAGER**

Freshman desiring to try out for assistant manager of Hockey team see Manager Carroll in M.I.T.A.A. office any night next week at 5 o'clock.

**MUSIC WRITERS MEETING**

There will be a meeting of Tech Show music writers Friday, November 13 at 8 o'clock in East Lounge, Walker.

**CATHOLIC CLUB**

The Annual Informal Fall Dance of the Catholic Club will be held on Friday November 20, in the North Hall, Walker. "Dok" in person and his Sinfonians will furnish the music. The tickets are \$2.00 a couple and may be secured from officers of the club and will be on sale in the Main Lobby at noon a few days before the dance.

**WRESTLING MANAGERSHIP**

Two Freshmen are needed in the managerial competition. Report any afternoon after four-thirty in the Hangar Gym or in the M. I. T. A. A. office.

**SECTION LEADERS**

There will be a meeting of all freshman section leaders Monday at 5:00 o'clock in room 2-245.

**AMERICAN CHEMICAL SOCIETY**

There will be a meeting of the American Chemical Society in room 5-330 this evening at 7.

**MUSICAL CLUBS**

The Prize Poster Competition conducted by the Musical Clubs will end November 16. All those wishing to enter should read the rules governing competition which are posted on the bulletin board in room 310, Walker Memorial.

**M. I. T. MENORAH MEET ON TUESDAY EVENING**

Professor Harry A. Wolfson was the speaker of the evening at the meeting of the Menorah Society last Tuesday evening at Walker held jointly with the Menorah organization of Simmons College.

Professor Wolfson is of the department of Semitics at Harvard and his subject was "Religions." He discussed the differences between Catholicism, Protestantism, and Judaism, and told of the bases and beliefs of the different religions. He also spoke of the plasticity of Judaism and of its compatibility with modern scientific views.

The speaker was introduced by president B. S. Gruzen '26 and dancing and refreshments followed the address.

**COOPER TO SPEAK ON TIDAL POWER PROJECT**

(Continued from Page 1)

of California and is in charge of the production of gasoline from natural gas.

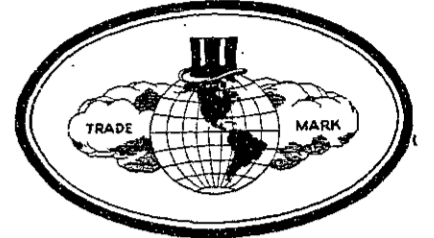
Professor Lewis states that, although all of these men are out of school but a few years, they are rapidly becoming prominent figures in the industry and, that in spite of the fact that they have exceptional ability, their spectacular rise would not have been possible except for the fact that there is a lack of older and more experienced men who have been trained along that line.

In addition to supplying many prominent men to the industry, the Department of Chemical Engineering has contributed considerably, through engineering research, to the development of the modern processes of distillation, including the rectifying column process for the production of gasoline, and the vacuum process for lubricating oil. This places Technology in line as one of the schools that has contributed a great deal to the advance of the industry.

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