

## ONE BILLIONTH OF SECOND MEASURED BY INSTITUTE MEN

Professor Heymans and N. H. Frank Set Records For Small Time Measurement

### USE LICHTENBERG FIGURES

Professor Paul Heymans and N. H. Frank of the research division of the Physics Department at the Institute have devised a method of measuring time intervals as small as one billionth of one second and are now using it successfully in connection with their work. Professor Heymans hopes to be able to measure intervals as small as one hundredth of one billionth of a second and believes that such measurement would not be impossible.

The measurement is made by employing the so-called Lichtenberg figures which manifest themselves when an electric wave is reflected from an electrode. If two electrodes are placed side by side at a proper angle and distance, the Lichtenberg figures meet and the position of the meeting line thus produced is dependent upon time which has elapsed between the reaching of the electric waves at the electrodes. The rate of propagation of these figures is of such a magnitude that differences in time from one hundred thousands of a second down to one billionth of a second can be measured.

### Studied Phenomena Abroad

While visiting at the University of Copenhagen last summer, Professor Heymans followed the work of Professor Pederson and other European scientists of repute and gave a good deal of his time to the phenomena of the Lichtenberg figures. Professor Heymans is a native of Belgium and received his college education there but came to Technology for his doctor's degree. He has been connected with the research department here for two years.

Mr. Frank, co-partner in the work, received his degree of bachelor of science from the Institute last year and has been connected with Technology as a research assistant since.

## FIELD DAY TEAMS STILL NEED PEP

Failure of Men to Report for Practice Hindrance to Both Classes

Despite the frantic appeals for men to try for the Field Day teams the self-satisfied lower classmen continue to give no heed to the needs of upholding the honor of their class. Even though the teams are entering the last stages of practice, some of them are still unable to present a full line-up and many of the men now out are so irregular and halfhearted in their work that it is very difficult for either class to point to a single able fighting team.

Sophomore crew prospects are poorer than at the first of the year. Once recently the unconcerned Sophomores failed to muster a full eight and there is seldom enough men at the Boat House to make it possible for them to put two crews on the river at the same time. Their competitors have seven or eight crews and though new at the sport are showing determination that should cause the 1927 oarsmen to take their task seriously.

### Football Teams Still Weak

With a layoff over the weekend, and with scrimmages few and far between it is difficult to estimate the merits of the two football teams. The Sophs while able to assemble two teams altogether, have thus far been unable to get them together at the same time. This hurt their chances for scrimmaging, and although the regular lineup shows fairly well, the team is woefully weak in substitutes. The line which stood before the attacks of Dean has been weakened by men withdrawing because of pressure of studies and needs men to bolster it. The backfield has not yet shown a hard driving attack, and offsets the value of the line.

Freshman football still remains a mystery. How so many light men can be rounded into a team to compete with the heavy Sophs, and why the heavy men in the class fail to do anything more strenuous than lounge about

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## Freshman Gashes Head With Bayonet at Drill

Sergeant Crowley, exasperated by the results from his explanations on the order of fix and unfix bayonets, roared, "When unfixing bayonets hold the gun away from you so you won't poke your eyes out. Now wait for the command." Several seconds elapse while freshman man .009 comes to a full parade "rest-absorbed in the fly crawling in the ear of the front rank man. Then the command: "Unfix BAYONETS." Freshman .00 comes to a full parade "rest-tul" position, casually glances down the barrel of the gun, while unclasping the spring; then waking up to the fact that every one else is at attention, jerks up on the bayonet, unfortunately missing the end of his nose but succeeding in gashing his forehead. Four men took the injured man to the clinic, while four others attempted to bring the sergeant out of a faint.

## OPTICAL CONCLAVE CLOSES SATURDAY

Morning Meeting at Institute and Gathering at Museum Ends Session

The Optical Society of America concluded its ninth annual meeting in Boston Saturday with sessions at Technology and at the Boston Art Museum. The society had been meeting in Boston on Thursday, Friday and Saturday of last week.

The morning session, which was held from nine o'clock until noon at the Institute, was featured by papers presented by Charles Sheard of the Mayo Clinic of Rochester, Wisconsin and by the Messrs. L. T. Troland and C. H. Langford of Harvard University.

### Tells of His Work

Mr. Sheard told of his recent experiments in rendering visible under the microscope certain capillaries of the human body by the use of reflected light. He also explained his research work in devising simple methods of investigating the movements of blood corpuscles in the retinal capillaries. In addition to this address, he read papers on "The development of a subjective method of skiascopy" and on "The Chromatic aberration of the eye and the chromatic variations in the interval of Sturm as determined by a subjective method of skiascopy." Messrs. L. T. Troland and C. H. Langford of Harvard University read papers on "The sensitivity-intensity law for equilibrium cone minutthesis."

At the afternoon session Dr. Benjamin Ives Gilman of the Boston Art Museum delivered an address on "The modern solution of the problem of gallery lighting." Professor Adelbert Ames Jr. of Dartmouth College, presented two papers at this time, one on "The illusion of depth from single pictures" and the other on the subject "Pictorial art and the physiology of vision."

Technology was in the main the scene of the meeting, the convention having gathered here all day Thursday in addition to the meeting here Saturday morning. Friday afternoon and evening the delegates gathered at Harvard University. Among the members of the faculty who addressed the gathering are President S. W. Stratton and Professors Paul Heymans and A. C. Hardy of the Physics department. Professor Charles Fabry, of the University of Paris, who is now visiting at the Institute, delivered an invited paper on "The measurement of light."

## Freshmen Trying to Dodge Monkey Drill-Director Issues Ultimatum

Freshmen are evidently using their annual tactics in trying to dodge monkey drill for Doctor McCarthy, director of physical training has found it necessary to issue a general ultimatum which applies to all freshmen and to upperclassmen who, for some unknown reason have found it convenient to postpone their work in the gymnasium until after their freshman year.

According to Doctor McCarthy's orders all men who do not wish to indulge in monkey drill must see him before next Monday at five o'clock and indicate on a sheet the name of the sport which they intend to substitute for the physical training exercises. Men who signed up for a sport in the Athletic Association office on the night of the Technology smoker are not considered ex-

## FRENCH PROFESSOR WILL LECTURE HERE DURING NOVEMBER

Professor Vallee-Poussin Will Talk at Technology on Mathematics

### LECTURES OPEN TO PUBLIC

Professor Charles de la Vallee-Poussin, visiting professor to America on the Commission of Relief for Belgium, will deliver a series of lectures in French on mathematical subjects at Technology from the first of November to the sixteenth. These meetings will be open to the public.

He will give four lectures on "Les fonctions d'ensemble et les fonctionnelles," concerned with the Lebesgue integration on the 3, 5, 7 and 10th of November at 4 o'clock in room 10-275 and two lectures on the 12 and 13 in the same room on "L'approximation des fonctions de variables reelles et les fonctions quasi-analytiques."

### In America During War

In 1891, Professor Vallee-Poussin received his doctor's degree in mathematics from the University of Louvain and in the same year accepted a position as instructor there. Two years later he became a professor at that institution and has held this same position ever since.

As president of the International Mathematical Union, he is recognized as a mathematician of distinction. He is the author of a "Cours d'Analyse Infinitesimale," an internationally famous work on the calculus. He has also contributed two monographs in the famous Borel Series on the theory of functions.

## Body of Whitehead Found in Glacier Park by Troopers

Former Technology Student Had Been Missing for Two Months

After nearly three months of mystery regarding his strange disappearance last August in the National Glacier Park the body of W. A. Whitehead '25 and that of his brother Joseph, a graduate of Lewis Institute of Chicago, was found by Park Rangers last week.

Whitehead and his brother left Chicago on August 15 for a three weeks' trip in Glacier Park for a vacation. They wrote home daily until August 22, after which date their parents failed to receive any more letters. The last thing known about them was that they had registered at the Glacier Park Hotel on the evening of August 23 and that after dinner they had gone on a short stroll from which they never returned.

### Report Not Confirmed

It was first thought that they had been drowned in Lake MacDonald, where the legend is that bodies never come to the surface, due probably to some subterranean outlet. To increase the mystery of their disappearance there was the fact that all of the trails near the hotel are traveled daily by hundreds of tourists and guides.

This news was received from Grtat Falls, Montana, and according to the uncle, the Reverend Whitehead, has not been officially confirmed as the bodies are yet to be identified by the men's parents.

## Bemis Takes First Place As Harriers Lose to Holy Cross

TECH SHOW BOOKS DUE AT SHOW OFFICE TODAY

Plan Smoker on November 12 for Candidates for Parts

All books for Tech Show 1925 must be in the Tech Show office by 5 o'clock tonight to be considered in the competition. Books should bear a number and not a name, and an envelope accompanying each book should give name of author, name of play, and the number.

On November 12 Tech Show will hold a smoker, primarily to get together candidates for the cast, chorus and ballet. At that time the winning play will be formally announced, and the author introduced. He will give a brief synopsis of his play, and describe the characters. Then men will be given an opportunity to sign up for the role which they would like to play.

On the day following the smoker will come the first cast rehearsal and the assignment of parts, in the north hall of Walker at 5 o'clock.

## CLUBS GIVE POSTER PRIZE TO FRESHMAN

Virgil Quadri '28 Is Winner of Annual Musical Clubs Contest

At the meeting of the executive committee of the Combined Musical Clubs last Friday, the \$10 prize for the best poster was awarded to Virgil Quadri '28, while the second award was to S. E. Homsey '25. The posters will not, however, be used for advertising purposes much before the Fall Concert, which usually takes place about the first week in December.

The winning poster is quite representative of the type of work which Quadri has been doing for Voo Doo. Done in orange, blue, and black, the cardboard represents a red-headed saxophone player, in tuxedo, playing a straight saxophone while kneeling on the checkered floor with one knee. He is playing in accompaniment to the movements of a dancing girl dressed in an orange costume shaped like riding breeches, tight fitting at the knees and the flaring out to a rather exaggerated wideness at the hips, while the upper part is on the style of the evening gown with low back and slender shoulder straps. The setting seems to be an outdoor platform of black and white checkered stone, upon which an orange moon sheds its light.

Quadri, although a member of the Class of 1928, studied in Paris before coming to this country. His art work, in the short time that he has been at the Institute has been widely recognized, since the last Voo Doo contained four or five of his sketches and his poster will be viewed by many throughout the year wherever the Combined Musical Clubs care to advertise their concerts. The new artist interests himself mainly in depicting feminine beauty, as his drawings show.

## PAPER OF LAFOLLETTE CLUB AGAIN PUBLISHED

The second issue of the LaFollette News appeared on the stands Saturday. It contains a repetition of the challenge to a debate first issued through the communication column of THE TECH, and in addition an editorial reprinted from the New Student telling a little about the LaFollette campaign and declaring that of the 31 planks submitted by LaFollette to the Republican conventions of 1908 and 1912, then denounced as radical, 26 have become law.

As yet none of the Institute's 228 Republicans have accepted the challenge of the LaFollette supporters to a debate on the issues of the campaign. The Progressives declare that they are willing to have the Republicans bring in an outside debater from the Republican headquarters, and that they will debate the entire platform or any individual issue.

## MEN SHOW UP WELL IN RUN OVER LEVEL TRACK AT HARVARD

Purple and White Runners Place Second, Third and Fourth—Rooney Fifth

LOSE BY ONE POINT—28-27

Hill Team Succumbs to Brown on Franklin Park Course Last Friday

In their first meet of the season, Technology's level cross country team was just edged out of a victory by the Holy Cross harriers in a run over the four mile Charlesbank course at Harvard Friday afternoon. The score was 28 to 27, the Engineers losing by one point. Captain Frank Bemis of the Tech squad ran a fine race and in a sensational sprint at the finish won first place for the Beavers beating Larrivee, Olympic runner and individual star of the Purple and White. The time was 24 minutes 5 seconds.

Captain Donaghy and Hand of the Worcester outfit placed third and fourth respectively and Rooney of Tech placed fifth. Hooper and Parkinson were close on his heels, scoring sixth and seventh for the Engineer team. Davidson finished ninth for Tech. Wills and Symonds did not place.

### Set Frantic Pace at Outset

The Technology runners started off with a bang at the sound of the starter's gun, setting an alarming pace which was clearly a surprise to the Holy Cross outfit. The runners were well bunched as far as the two mile mark but as they swung over the bridge for the return trip, Bemis, followed by the fleetfooted Larrivee, began to edge his way out of the crowd.

Despite the swift pace which they set, Rooney of Tech and Captain Donaghy of Holy Cross kept close to their heels. Wills and Symonds of

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## MECHANICALS TO HEAR TALK ON CONSTRUCTION

Authority on Compressed Air Construction Lectures

Mr. Charles R. Gow of the general contracting firm of the Charles R. Gow Company, will speak to the Mechanical Engineering Society at their smoker to be held in north hall, Walker, this evening.

Mr. Gow, who is considered an authority on the subjects of foundations, lectured at one time to the Civil and Mechanical Engineers on that subject here at the Institute. He is the inventor of the Gow Cement Pile used in foundations. His talk will be entitled "Compressed Air or the Pneumatic Process of Engineering Construction." In his talk, Mr. Gow will tell the society about methods of foundation construction where it is necessary for the workmen concerned to work in caissons under air pressure greater than normal. The problems encountered in such work, and the physiological effects of high air pressure upon workmen will be discussed.

This smoker will be open to all and anyone interested is extended a cordial invitation to attend. The meeting begins at 8 P. M. An opportunity will be offered to join the Mechanical Engineering Society at the meeting.

## CALENDAR

- Monday, October 27  
2:30—Technology Dames meeting, room 10-300.  
3:00—Glee Club rehearsal, room 10-250.  
7:45—Alumni Association meeting, Walker.
- Tuesday, October 28  
3:00—Fabry Lecture, room 4-231.  
7:45—Aeronautical Engineering Society Smoker, room 5-330.
- Wednesday, October 29  
8:00—Combined Musical Clubs Smoker, Walker.
- Thursday, October 30  
7:30—Mining Society Smoker, Walker.  
8:00—La Follette Club, Mechanics Hall.

A Record of Continuous News Service for 43 Years



Official News Organ of the Undergraduates of Technology

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Table with columns for MANAGING BOARD, ASSOCIATE BOARD, EDITORIAL DEPARTMENT, NEWS DEPARTMENT, OFFICES OF THE TECH, BUSINESS DEPARTMENT, and STAFF.

WAKE UP, 1925!

SENIORS! Where is your spirit? How about getting out in force and showing the other classes that you are not as dead as you seem?

TARDINESS

THERE has been a great tendency so far this year to get in five minutes late to class. It disturbs the instructor and the rest of the class.

YOUNG INTELLECTUALS

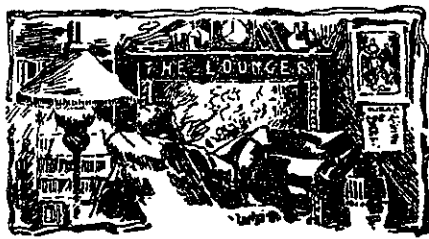
THAT education is a Mephistopheles instilling pride and arrogant wantonness in innocent youth is a belief of widespread prevalence among whom might be termed the bourgeoisie.

The belief is based upon the empirical evidence the layman collects from his observation of college men—particularly those of bold beliefs and differing attitudes.

The statement of the case itself exhibits one fallacy behind the opposition to "young intellectuals"—as popularly phrased. Superficial, empirical evidence is used as proof.

The wholesomeness of advanced thought freed from traditional chains and sectarian constrictions cannot be challenged on such flimsy observations.

In "The Humanizing of Knowledge" (a book every college man should read) J. Harvey Robinson gets at the heart of the trouble by showing that educational aloofness has antagonized those outside the magic circle.



In a recent mail, the Lounger was in receipt of a letter from one Calvin H&M Dawes, (somebody seems to have been naming their son in honor of a future pair of nominees some time in advance of the nomination of the men in question), which he was requested to publish, as having some reference to J.B.'s recent remarks regarding the LaFollette Club et al.

In the mean time, here is another from the west:— Dear Lounger

Once the Editor of The Tech put in a little smear on how maybe prohibition agents might possibly get to heaven the same as human beings.

That was in the dim ages of a year or so ago, but ever since the printer's ink hasn't suffered from being diluted with no parade of sentiments on alcohol.

A while ago you pulled some sweet poetry about cowboys having heavy crushes on girls what lives at home in Boston. Now, I ain't a cowboy and she doesn't come from Boston, but otherwise your crack went home, and I just wanted to let you know that in this part of the sage brush country they was ample consolations.

Honestly, they is so many Jerry boys eager to melt down your pay check into bonded moonshine that you has to hesitate and scratch your head as to which one has the most reasonable chance to let you get back to work by Monday morning.

This town here is gifted with the large population of around five hundred. It's sort of slow as there is only around ten fellows making moon for other than their own consumption.

They is mostly Dagos and Greeks and jealous as the devil of each other. I drop into Guidi's joint.

"Where you been," says he. "I haven't seen you in here for nearly a week."

I starts to tell him how good his last batch is.

"You been to John's?" he asks. "Don't I tell you not go there? He put sugar in it."

A couple of days later I try Quilici's. "Welcome stranger" is his contribution. "Opened my last batch today. Try one on the house."

I tries one and pays for a couple. "This the same stuff that Guidi's got?" I asks innocently.

"What! You been over to that damn Wop joint?" Quilici is a Greek. "His stuff no good. He put sugar in it."

They raided a couple of joints here a while ago. The agents carted off a lot of poison and sold it up the line a ways. You see, this is out amongst the wide open spaces.

Out here they is just getting them grey bags what inflicted the Chas. river last spring. The big-mouthed, no-get-dirty pants is all the rage. They has a cute little square-bottom vest to help the coat keep the breeze off the spine.

(Signed) J.B. ex '24 ex '25

After a thorough investigation, the Lounger reports that the hold-up in the line at the Walker Cafeteria the other day (not referring to the charges for food) was due to one of the members of the famous Class of 1928 making a request for a dish of "Cosmopolitan Club" ice cream.

The Fenway advertisement for Betty Compson's 'The Fast Set' presentation.

At the University of Wisconsin, Varsity swimmers have been forbidden to dive for pennies in the college pool, lest their action be construed as a use of their swimming knowledge for financial gain, thus rendering them ineligible under amateur classification.

DORM DANCE TICKETS TO GO ON SALE SOON

Hallowe'en has been the date set for the first formal dormitory dance. There are three dorm dances a term one of which is to be formal.

DAILY TEXAN PUBLISHES LIST OF FREIGHT TRAINS

A few days before a big football game between the University of Texas and S. M. University, the following notice appeared in the "Texas Daily" by way of encouragement to those who might be in financial straits.

"For the benefit of all students interested in getting to Dallas in any possible manner, the following freight schedule is announced:

"Northbound freight trains out of Austin: M. K. & T. local to Granger departs between 6 and 6:45 a.m., and makes connection possible with through freight going north.

"The freight from the H. & T. C. yards departs at 8 p.m. and makes connection possible with northbound trains out of San Antonio.

"Hints To The Wise "Don't ride a freight unless you haven't the \$5.65.

"Don't get on a front or rear car. "If you've gotta ride one, be careful.

"The M. K. & T. 1:30 a.m. is easy to blind."

BRAIDED CORDS and COTTON TWINES



Trade Mark SAMSON CORDAGE WORKS Boston, Mass.

STUDENTS ACCOUNTS

Solicited Manufacturers National Bank "The Closest to the Institute" Kendall Square, Cambridge

Venus Pencils advertisement featuring a pencil illustration and text: "FOR the student or prof., the superb VENUS out-rivals all for perfect pencil work."

Are You Too Proud To Save? BRING US YOUR SOFT HATS NOW We restore and reshape Gentlemen's Hats of all kinds. MILLER BROS. 117 Summer St., Boston, Mass.

SIMPLEX

Simplex Wires and Cables, insulated with rubber, paper or varnished cambric and covered with braid, lead or steel armor, are rendering satisfactory service in many of the larger power stations of the country.

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STUDENTS' CLOTHES

Evening Clothes a Specialty

J. C. LITTLEFIELD, Inc., 12 Beacon Street HIGH CLASS TAILORS

By Reading

The

FAMOUS FRIDAY FOOTBALL FORECAST

appearing weekly in the

Boston Evening Transcript

You will be able to keep in touch with the Leading College Elevens

READ WHAT OUR EXPERTS HAVE TO SAY

# SOCCKER TEAM DOWNS CLARK IN 1-0 WIN

## Coach Connors Well Pleased With Showing Made By Harriers Last Friday

### COACH CONNORS IS WORKING MEN HARD FOR HARVARD MEET

#### Coaches Satisfied With Friday's Showing Against Holy Cross Runners

#### I.C.A.A.A. COMING SOON

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The Engineers began to fall back at this point and were never able to catch up again with the leaders.

#### Rooney Places Fifth

As they approached the home stretch Bemis and Larrivee were still fighting it out between themselves and were running neck and neck until the final few hundred yards began to stretch out before them and it was at this time that Bemis showed some of the neatest bit of sprinting that has been seen around the Institute in quite a while. Larrivee, powerful runner though he is, was too tired even to challenge the Beaver captain and after a glance behind him showed a Holy Cross runner on his heels, he was content to let Bemis cross the line first for high honors.

In the last mile, Rooney of Tech, who had up till then been leading and looked like a sure third place, began to drop back and was passed by Captain Donaghy and Hand of the Purple and White team, who placed third and fourth respectively. Rooney, the second man to place for Technology, finished fifth.

#### Coach Connors Pleased

Hooper and Parkinson, who placed sixth and seventh for the Beavers, both ran a fine race and crossed the finish line with the speed of a startled deer. Davidson placed ninth for Tech, Fitzpatrick and McNamara securing eighth and tenth place respectively for Holy Cross.

In spite of the defeat, "Doc" Connors was evidently quite pleased with the showing of his charges in this, their first outside meet of the season. He is looking forward with much anticipation to next Friday when the Engineers will tackle the strong Harvard outfit on the same course and will give the men lots of work to keep them in the peak of condition for this meet which promises to be one of the stiffest of the year.

**Working Hard for I. C. A. A. A.**  
It will be remembered that the Holy Cross team succumbed to the Crimson recently to the tune of 25 to 32 so that the Tech team has a lot of hard work ahead of it if it expects to hold our neighboring rivals down for a low score when they meet soon.

On Friday, November 7, the Tech squad will meet the Tiger at home and this also promises to be a hotly contested event. The climax of the season, however, comes with the I. C. A. A. A. run at Van Cortlandt Park, in New York. Bemis, who placed twelfth in this event while a Sophomore at the Institute and who was prevented from participating in the event last year due to injuries received in a previous meet with Princeton, should place well up in the list this year. The other members of the squad are keenly anticipating it and are fighting harder and harder each day in order to be ready for this meet, the outstanding event in the year for them.

#### Brown Defeats Hill Team

On the same afternoon that the level team met Holy Cross the Brown hill and dalers proved too strong for the Beaver harriers, defeating them by a score of 21-35 over the Franklin Park three and a quarter mile course. Ostborg was the first to score for Technology taking fourth place in 22 minutes 28 seconds; H. B. Smith and Preston took fifth and sixth places for the Beavers and were trailed by two of Bruin's runners, Hunt finishing ninth, soon followed by Bailey who completed the scoring for the Engineers.

Nevens of Brown was the first to cross the finish line, negotiating the course in 22 minutes 19 seconds; closely followed by Lockwood and Magle also of the Bruin harrier team. The rest was easy for Brown as they had to bring in only two more men, while the Engineers had not commenced to score. But prospects began to brighten up some as Ostborg came in fourth leading Smith and Preston; while when Cobb and Tierrine of Brown took the next two places it was very evident that the Beavers did not stand a ghost of a show of winning. Nevertheless, Hunt fought hard to the finish, Hunt taking the ninth place for Technology. Groves of Brown trailed in just ahead of Bailey who completed the scoring for the varsity hill team.

### Beaver Captain Who Placed First Friday



Captain Frank Bemis

### Coach Bill Haines Works Havoc With Sophomore Crew

#### Constant Withdrawal of Men For the Varsity Hinder Field Day Men

The Sophomores moan and groan and cheat the barber by tearing their hair out for no sooner do they get a couple of crews on the river than along comes Bill Haines and immediately appropriates two or three men for the varsity or junior varsity. A fine boost for the reputation of the Sophs as expert oarsmen but not so good for the Field Day score.

In spite of the fact that the frosh are filling the river full of their crews and the Sophs at present have to content themselves with one full eight and the remnant of another, the upperclassmen are decidedly better organized than the yearlings this season. Although all the men were not on last year's freshman crew, all of them have had practically a year's experience on the water and practice is the thing that tells more than anything else in pulling an oar.

Some of the frosh, however, are also nothing to sneeze at, although the majority it must be admitted are sad looking specimens and raise a melancholy feeling in the onlookers. Their first eight pulls together quite decently on the whole and unless Bill stops finding so many expert water pushers among the Sophs something is going to happen. That is at least a safe statement.

#### Launches Vital Question

The question of launches is still a vital one for although, as the Bursar said at the smoker, there are half a dozen more or less lying around the place they seem to do nothing but continue to lie. The one that is undergoing repairs at Winthrop has had another delay and is due sometime. There is another one at the Boat House besides the one now running but it is having a Ford engine put in and will not be ready until next spring. As it is now, Bill goes racing from one crew to another and has all the work on his hands while if other launches were in condition the coaches could take their respective crews out and leave Bill to develop the varsity.

With darkness coming on early as it does at this time of the year, the crews have practically no time to practice. If a man has a five o'clock class, it takes him at least five minutes to reach the Boat House even if he is endowed with wings or an automobile and another ten to get into his togs. When the boat is finally lowered into the water the temporary bridge has become a line of lights. Not only is it hard for the crew to see what it is doing but what is more important, it is hard for Bill to see what they are doing and consequently he has a hard time remedying what small faults they seem always to have.

It doesn't make so much difference as to who won the race, but it's how the race was run. Bemis's sprint at the finish was well worth the trip out to the Harvard Stadium. The large crowd on hand to see the finish were left over mostly from the Harvard Dartmouth race; and not loyal Technology supporters which are always conspicuous by their absence.

### Athletic Improvements at Institute Should Produce Better Teams Here

Technology athletes will have lots of new equipment to enable them to make good in their meets this year. Work has just been started on a new board track which is an exact replica of the B. A. A. runway and which will be located in the same place as the old track. Work will be finished on it within a few weeks so that the Engineer runners will have lots of opportunity to show their stuff on it when the cold weather sets in.

The tarvia base has already been set for the new hockey rink which will be located in the rear of building 10. The land there is quite level and when a dirt guard has been erected there ought to be no danger of the water running away as was the case with the temporary rink that was erected on the athletic field last winter.

Bursar Ford has expressed the opinion that the new rink will be successful from a structural point of view but emphasizes the point that only real cold weather can make it satisfactory for the pucksters to skate on.

The new rink will eliminate the necessity of the team's traveling to the Boston arena for practice games and should produce a better team than the Beavers have ever turned out before. With the advent of the new hockey coach, enthusiasts of the sport at the

Institute are looking towards hockey as a shining light in the major sports for the coming year.

The soccer team will also have a chance to prove their worth on a new field which will be erected for them on the new land that was purchased by Technology early last spring. The work of grading and filling in has nearly been completed and a layer of top soil will soon be applied. Due to the fact that the grass will not be sprouting to any extent until next spring, the soccerites will have to content themselves with practicing on the athletic field for the rest of the winter at least.

New concrete tennis courts, which are to be erected in the rear of the cooperative branch early next spring are beginning to assume some likeness to a hunting ground for racquet wielders as the base of cinders is being applied. Cold weather will no doubt have set in before the Institute power plant could accumulate sufficient cinders necessary to complete the foundation for the courts so that now work will be done on the concrete construction until winter has passed by.

With all this new equipment which the Advisory Council has found advisable to add, the teams ought certainly to make a good showing against their opponents during the coming year.

### GYM TEAM IN BAD FIX THIS SEASON

#### Some Old Men Back But Many Places Are Open For Good Acrobats

The gym team is in a pretty sorry fix this year but while the situation may not be so good for the team itself, it is all the better for those who have ambitions to become high and mighty acrobats. The rings are practically vacant this year and the rope climb is the same only more so.

McCoy and Shea who could always be depended upon to bring home first and third places in the rings are minus quantities and there is nobody to fill their places. Newcomb while he shows natural aptitude for this piece of apparatus and is a good hard worker needs a year of experience in meets to bring out the form and little tricks of the trade that are the final deciding points with the judges.

The rope climb exists in theory only. Everyone even remotely connected with it has graduated. Here is a first rate chance for anyone with some good muscles or a willingness to develop them to make the team the first year that they come out which is unusual to say the least.

#### Captain Turner and Smith Back

Other branches have at least a core left upon which to develop. Captain Roi Turner and Smith will have the horse between them as during last year and if this year's record is as good as last there will be nothing to complain about. Max King is back along with Goffin and between them they should give anyone a fight for the horizontal bar.

Ed Wayne and Ray Waller in tumbling and Ruiz and Smith on the parallels complete the nucleus. Ray is somewhat of a phenomenon. He came out for tumbling only last year and last spring was turning off back flips and summers that would have made a vaudeville performer turn green. If the old pep will come back this year just watch his smoke.

Ruiz is good hot stuff on the parallels but he needs a lot of training to break him of the habit of pushing his series through by main force and muscle instead of getting the swing down perfect and letting good form carry him through.

The gym has been secured for the regular hours 4:30 to 6:00 on Mondays, Wednesdays, and Fridays. Anybody who is the least interested in this sort of work should at least come up and talk it over with one of the managers.

It's about time the Seniors showed some interest in Field Day and class activities. Up at the boat house so few men show up for the Senior crew that it is always necessary to draft some of the others from the lower classes in order to launch a shell. Frequently those few that do report cannot go out to practice at all. With the Senior-Junior race only a few weeks off it seems as though some of the Seniors could wake up and do their stuff.

### CLARK LOSES TO INSTITUTE SOCCER PLAYERS SATURDAY

#### Beaver Booters Perform Well in Their Second Game Of The Season

#### ONLY GOAL BY ARELLANO

Saturday afternoon the Engineer soccer team shut out Clark College by the score of 1-0 in a fast and thrilling game; Arellano scoring the only goal of the game on a free kick. The game was characterized by fast and consistent playing throughout; although the Beaver soccerites carried the sphere many times right up to the Clark goal they were unable to score.

At the very opening of the first half, the Institute ball pushers ran down the field and started their attack on the Clark goal; but no sooner had they arrived than they were met with a clever defense which ridded them of the pill for the time being; passing it from head to head the Clark booters succeeded in reaching a position of uncomfortable closeness to the M. I. T. goal posts. Ruiz missed a pass, but Sun by a deft toss to Young sent the ball rolling well into center field.

Then the play kept pretty well around the Clark goal posts many attempts being made to score, but to no avail. The unusual warmth of the afternoon made the exceptionally fast playing rather difficult, and at the end of the first 40 minute half both sides found themselves pretty well winded; although the Institute kickers were still in good condition.

#### Teams Play Hard

In the second half both teams settled down to the hard fast playing that had characterized the opening of the first half. At the end of the first five minutes both teams were nearly swimming in their own perspiration, as the ball continued to hover around the Clark end of the field. Higginbotham played an exceptionally good game for the Worcester soccerites, many times bringing the ball well down the field; but lacking the support of his teammates was forced to retreat. Stanell, also of the Clark team, showed excellent fighting spirit but luckily for the

(Continued on Page 4)

### NEW HOCKEY COACH SECURED FOR TEAM

#### Gerald W. Wiggett of Quebec Will Tutor Pucksters On New Rink

No more of those late practices at the Arena this season for the members of the hockey squad if old man weather will cooperate with the Advisory Council on Athletics and send a little zero weather this season, in order to freeze the rink being built behind Building 10. Gerald W. Wiggett of Sherbrook, Quebec, a professional referee of national repute has been chosen to take up the reins left by former coach Blacklock to guide the team through a hard schedule.

Wiggett has officiated at many large games throughout New England among which are listed the big contests between Harvard, Yale and Princeton. His work as an arbiter has given him a wealth of experience in the ice game which he can use to advantage in coaching the Engineer puck chasers. As an ardent follower of the sport, he has an international reputation of being fair, and his enthusiasm will undoubtedly push hockey sport here to a major rank.

#### Large Rink Planned

Facilities for hockey at Technology have kept the teams of the last few years from attaining top form as the varsity was dependent on the Arena rink which they could only obtain for practice for less than an hour from 6 to 7 in the evening, a most inconvenient hour for the men. The rink on the Technology grounds will afford the team plenty of time for practice which will greatly facilitate the coach in getting the team into form.

(Continued on Page 4)

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"What's the matter?  
Can't you read your notes of the lecture?"

Pythias—  
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## NEW HOCKEY COACH IS SECURED FOR THE SQUAD

(Continued from Page 3)

A space 80 feet wide and 180 feet long has been leveled off in front of the Hangar Gym by the use of a grader and a heavy coating of tarvia has been applied to the cinders to provide a base for a good sheet of ice. Another layer of tarvia will be applied; soon after a board banking will be placed around the rink, and then a spell of snappy winter weather will place the hockey squad in a position that it has lacked for a long time, that of actually having its own rink.

In the next few days, the hockey men will start in training for the coming season by short jogs on the cinder oval under the direction of Track Coaches "Os" Hedlund and "Doc" Connors. This will get them into good condition for the strenuous pace set by a hockey game, and with a little field hockey over on the concrete in front of the Hangar the men will be ready for the big games.

## CLARK IS DOWNED BY BEAVER SOCCER TEAM

(Continued from Page 3)

Beavers most of his passes were intercepted before they had travelled far enough to do any considerable damage. The College goal tender also deserves mention as he provided considerable enjoyment for the crowd watching the game by pouring a steady

stream of conversation most of the time.

Both teams played hard; but the advantage always seemed to be with the Engineer booters as they frequently brought the sphere within range of the Clark goal only to be repulsed as they attempted to score. Young, the left full back of the Technology team, warded off the Worcesterites many times and played an unusually strong game for the Beaver ball pushers. Then Clark fouled and Arellano was given a free kick which he sent right through the posts and scored the only tally of the game.

During the remainder of the game Clark redoubled their efforts to score but to no avail; the Beavers holding their end of the field until the whistle was blown announcing the close of the contest. The third meet of the season comes on November 1 with Dartmouth at Hanover.

## FABRY GIVES FOURTH LECTURE ABOUT OPTICS

Speaking on the "Measurement of Light," Professor Charles Fabry gave his fourth lecture on "General Interference Phenomena in Optics," Friday afternoon. Dr. Fabry who is President of the French Physical Society gave the talk as part of his course for graduate physicists and as a continuance of his previous lectures. Besides giving his regular lectures at the Institute this week, Dr. Fabry has also presented a paper before the American Optical Society during their convention here.

## Notices and Announcements

### OFFICIAL

#### PHYSICAL TRAINING

All freshmen who are not going to substitute athletic sports for physical training classes are requested to call at the office of Physical Director, room 335, Walker, and make appointments for physical examination at once.

#### CHORAL SINGING GS58

All students who are taking Choral Singing as a General Study are not to register for this subject until the beginning of the third term. They are required, however, to attend all the meetings during the first and second terms or they will not be allowed to register for GS58 the third term.

#### UNDERGRADUATE

##### FRESHMAN RIFLE

Rifle range will be open Wednesday 2:15 to 5:30 for freshmen rifle practice in addition to Tuesday and Thursday.

##### CATHOLIC CLUB

There will be a joint "Acquaintance Dance" of the Technology, Simmons and Emerson Catholic Clubs at St. Cecilia's Hall, Belvedere St., Boston. Take street car to Mass. Station and walk down from there. All members of the club and their friends invited. No escorts necessary.

##### FOOTBALL EQUIPMENT

Anybody willing to loan football equipment to the freshmen please call R. P. Price at B. B. 1369 or R. W. Rogers at B. B. 7197 or call at the A. A. office. Shoulder Guards, Headgear and Pants are needed most.

##### NEW STUDENTS

Men desiring copies of the Stranger's Directory of Greater Boston and the pamphlet "Our Neighbors At Kendall Square" may obtain the same from the Information table in the T. C. A. Office.

##### TECHNOLOGY DAMES

Wives, mothers, and sisters of Technology students are invited to attend the opening meeting of the Technology Dames today at 2:30 in the Emma Rogers Room, room 10-300. All members are urged to attend. Dean Talbot will speak and Miss Owen will sing.

##### SOPHOMORE TUG-OF-WAR

All candidates for the team must report today at 5:00 in order to fill out eligibility cards and receive medical examination appointments. This is the last opportunity.

##### GOLF TEAM

Meeting of Golf Team and Management candidates today at 5 in room 10-275.

##### GLEE CLUB

There will be a rehearsal of the Glee Club in room 10-250 today at 5.

##### MECHANICAL ENGINEERING SOCIETY

Mr. Charles Gow, inventor of the Gow Cement Pile, will speak to the Mechanical Engineering Society at their smoker to be held in north hall, Walker, this evening at 8. All interested are invited to attend.

### ARMY OFFICERS

An invitation is extended to all regular Army officers at Technology to attend a farewell dance in honor of General Hersey, who retires in November, to be given at Whitney Hall, Coolidge Corners, Brookline, the night of October 29. Those wishing to attend please communicate with Lieutenant Kovarik at Corps Headquarters.

### FROSH FOOTBALL

Heavy freshmen are wanted for the football team by Coaches Tom Price and Jiggs Rogers. Any man wishing to try out will report to Manager Seavey at the track house at five o'clock.

### LaFOLLETTE CLUB

Robert M. LaFollette will speak on Thursday October 30th, at 8 P. M. in Mechanics Hall. Those who wish reserve seats at 50c each leave name and number of seats in Box 113, Main Lobby, M. I. T., before 12 o'clock, Monday, October 27th.

### AERO SOCIETY

The Aeronautical Engineering Society will hold a smoker in room 5-330, tomorrow at 7:45 o'clock. Professor E. P. Warner '27 will tell of the International Air Races held recently at Dayton, Ohio, and Lieutenant Noel Davis, U. S. N. R. F., will speak on "Naval Aviation."

### MINING SOCIETY

Dr. Waldemar Lindgren, head of the Department of Mining will speak to the members of the Mining Engineering Society at a smoker to be held in North Hall, Walker, next Thursday, October 30, at 7:30. Freshmen members of Combined Professional Societies are invited.

### FRESHMAN TUG-OF-WAR

Assignments for the medical examinations for members of the Field Day Tug-of-War teams will be made at the practice this afternoon at 5. All men who have not received their assignments at this time will be ineligible for competition on these teams Field Day.

### A. E. S. NOTICE

Members of the Aeronautical Engineering Society may subscribe to "Aviation," the national aeronautical weekly, at the special rate of \$2.50 per year, at the A. E. S. Smoker, tomorrow evening in room 5-330.

### RADIO SOCIETY

There will be a meeting of the M. I. T. radio society Tuesday evening, October 28, at 8:00 P. M. in room 10-275. Mr. J. K. Clapp is to speak on "Straight Line Condensers." Everyone is invited, refreshments will be served.

### FRESHMAN RIFLE TEAM

Freshman rifle squad has been cut to 33 men. No further cut will be made until Nov. 1. Men signed up for the squad who are in doubt as to their status should consult bulletin board in rifle range. All men remaining on the squad are urged to fire as many targets as possible before November 1. Range is open Tuesdays, Wednesdays, and Thursdays, 2:15 to 5:30.

### T. E. N. COMPETITION

Competition for the position of news editor and publicity manager for T. E. N. starts today and will last until December 8. Open for Juniors and Sophomores.

## Coolidge Leads in Straw Balloting at the Colleges

To Date Only Few Have Voted So Figures Are Not Representative

Statistics compiled by the "New Student" which has been conducting straw votes throughout the colleges of this country and at whose request the recent straw ballot run by THE TECH was conducted shows that President Coolidge is far ahead of the other candidates in the number of votes received. According to the most recent returns, President Coolidge had received 2818 votes, John W. Davis 903 and Robert M. LaFollette 324.

The figures signify little, as comparatively few colleges have as yet balloted, most of the student elections being scheduled for the coming week. The balloting has disclosed nothing startling however, the vote being merely an indication of the political sentiment current in the particular part of the country in which the school is located.

Some typical returns from the few colleges that have balloted to date are as follows. A Pennsylvania college has given practically 70 percent of its vote to the president while a Virginia institution is just as strong for Davis. An Iowa university is strong for Coolidge but divides its vote fairly evenly between the progressive and the democratic nominee. A college in California cast most of its votes Republican and is stronger for LaFollette than for Davis.

### FIELD DAY TEAMS

LACK NECESSARY PEP

(Continued from Page 1)

the corridors are the questions to be answered. Lack of weight is only secondary to the lack of men, however. A football team needs much practice before getting into physical condition for a hard game and unless the frosh get the badly needed huskies soon, they will be useless.

#### No Spirit Shown by Rope Pullers

"The most spiritless tug-of-war team ever" is the comment made about the Sophomore heavers by one of the coaching staff. They still are far from the number needed for a full team. Thirty men have signed up for the sport but their custom is to work one night and lay off two. Perhaps those men out regret that they have departed from the traditional indolence characteristic of both the lower classes, for they fail to put any snap or spirit into their practice. The Sophs greatly outweigh the few freshmen who are out but the frosh are showing greater ability at pulling.

As in past years many of the heaviest men are postponing reporting at practice not realizing that they are apt to fail to have the necessary condition to withstand the strain of a three minute pull. Unless at least 25 more men report at Tech Field nightly tug-of-war with its all-important two points may have to be forfeited.

Relay, possibly due to the popularity of track at the Institute is in a much healthier state. However there are eight points to be collected besides relay that apparently neither class wants. Unless men come out in force this week, Field Day cannot be regarded as a true test of the strength of Technology's rival classes.

## Communications

To the Editor:—

The LaFollette Club severally and collectively read the Lounger yesterday. The poor Jester's criminal profanity pained us and his "lunatic fringe" remark enraged us. We admit it freely at risk of giving joy to the Lounger. Since the Transcript defined a Liberal as a man who gets madder than most people at the world's doings we have been very sensitive on the subject of our temper, and so extend our forgiveness to your man of motley, allowing our protest to take the form of transmitting to him a letter from our respected associate member, Mr. Calvin H&M Dawes (M. I. T. Unclassified, and Special; omitted from the directory unfortunately) who is very anxious to get word to J. B. ex '24, ex '25. We hope friend Lounger will oblige us and repair our much injured feelings by publishing Mr. Dawes' letter.

(Signed) Samuel Eskin '26.

Sec'y LaFollette Club. (Inasmuch as Mr. Dawes has been omitted from the directory, and the letter from him is over a typed signature, we feel that it will be necessary to receive a letter from him over a penned signature, or to see him personally, especially in view of the fact that there are a number of inaccuracies in the letter.—Ed.)

## KECK IS DELEGATE AT FIELD COUNCIL

Represents T. C. A. at Annual Council Held Recently in Boston

D. H. Keck '25, president, W. B. Birch '27, and W. M. Ross, general secretary of the T. C. A., represented the T. C. A. at the annual New England Field Council held recently in the Herrick House of the Mt. Vernon Church. There were delegates from the men's colleges of New England consisting of Yale, Harvard, Dartmouth, Brown, Universities of Maine, New Hampshire, Worcester Polytechnical Institute, Amherst, Bates, Wesleyan, Boston University, and M. I. T. The business discussed was how to make Christian Association work in the colleges more affective.

Among the business transacted was the election of G. K. Chalmers '25, Brown, president of the Field Council to represent the New England Field Council at the National Field Council to be held at Buffalo, December 3rd to the 6th. D. H. Keck '25, M. I. T., was elected alternate.

A joint session was held Saturday afternoon with the Women's New England Field Council, which was held at the same time at Simmons. At this meeting there was a discussion of whether or not there would be a solicitation for the Student Friendship Fund this year. The action on this was left to the local organizations.

The delegates were housed by eight fraternities near Mass Ave. and Beacon Street, where they took breakfast. Other meals were served in the vestry of Mt. Vernon Church. The final session was held Sunday afternoon.

## STUDENTS OCCUPY ODD JOBS DURING SUMMER

Students certainly can find varied jobs for the summer. "The Middlebury Campus" has compiled a partial list of vacation occupations. Every job imaginable from white collar positions to trench-digging has claimed its share of men trying to work their way through college. Two sedate Sophomores undertook the job of selling Bibles to laboring men. A Senior ran a boys' camp, while others amused themselves by driving trucks.

Several men found employment with ice companies, due to the increased amounts of ice delivered in the hotter months. Three men ran a parking station, while a Junior sold hot dogs and ice cream. Many men with more or less journalistic ability found positions on the staffs of city newspapers, one man even occupying the job of assistant sports editor of a morning paper.

Among other positions filled by college men during the summer were: Salesman, chauffeur, surveyor, errand boys, solicitors, magazine salesmen, candy store clerks, ushers, hucksters, street car conductors, electricians, carpenters, playground directors, plumbers' assistants, farmers, and others too numerous to mention.

## RABBI LEVI DELIVERS LECTURE TO MENORAH

The basic fundamentals of all religions, in general, and of Judaism in particular, was the subject of the talk of Rabbi Harry Levi delivered to about 60 members and friends of the Menorah Society at the initial smoker of the year held Thursday. Illustrated by examples from his own experience, the talk was very informal.

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