

TUITION IS RAISED TO \$500.00

Varsity Matmen Defeat Crimson in First Meeting

Wrestling Team Wins Meet from Harvard 20 to 15

Freshman Squad Loses Crimson
Encounter by One-sided
Score of 33-5

Light-Weights Strong

Varsity and Freshmen Will Go
To New Haven for Meet
With Yale Team

Technology scored its first wrestling victory of the season Wednesday evening against the Crimson grapplers in the Hemenway Gymnasium 20 to 15. The Engineers scored practically all of their victories in the lighter classes, and as a whole were in better condition than their opponents. The freshmen lost by the large score of 33 to 5 in the preliminaries.

Axford, 115-pounder, was the first man on the mat for Technology and scored a fall over his opponent after 8 minutes and 26 seconds of wrestling. Although Chase was a more experienced wrestler, Axford wore his man down, and threw him with a half-Nelson and body hold.

Perkins and Negus Win

Perkins wrestled a close match in the 125-pound class, but the Engineer seemed to be in better condition, and turned his opponent over in the last few seconds with an arm and body lock for the second Technology victory. Negus, in the 135-pound class, scored another victory for the team when he threw Minis of Harvard with a half-Nelson and body hold. Negus has shown considerable improvement as a grappler since practice started this fall, and now looks likely to be one of the outstanding Engineer matmen.

Cooper Loses Close Match

Harvard won a close victory in the 145-pound class, Levine of Harvard winning over Cooper by a small time advantage. This bout was one of the most interesting of the evening, and was a sterling exhibition of good wrestling. The Crimson matman finally won by a time advantage of 2 minutes and 5 seconds.

Solano, 155-pound star of the Crimson wrestling team, outclassed Vasolotti and threw him with a body and (Continued on Page 4)

Lack of Good Ice Interferes With Hockey Schedule

Games on Proposed Road Trip
Are Postponed—Freshmen
Play Tomorrow

Because of the prevailing warm weather both the hockey game with Clarkson College scheduled for tonight and the game with St. Lawrence University for tomorrow night have been postponed. Should the ice be in proper condition, the team will begin its series of games played on its opponents' rinks at Williams College next Wednesday.

The freshmen team is progressing rapidly and gives the Varsity a stiff work-out whenever the two teams meet in practice. Over twenty men are reporting at each practice and all look forward with enthusiasm to the Andover game tomorrow afternoon at Andover.

Good Prospects

With a record of a win over the University Club sextet and the recent defeat by the fast Harvard team, the Varsity expects to have a successful road trip to make the season the greatest since hockey has been played at the Institute. Hockey is rapidly becoming a recognized sport at colleges all over the country and especially in New England where outdoor winter games are popular.

NEW SUBJECT ADDED TO MINING COURSE

17.46 will be Condensed Course
On Building Construction

In order that students in Course III may have an understanding of methods of construction, a new course, 17.46 has been added to Options 2 and 3. This subject will be a condensed course in building construction adapted to the needs of students in Mining and Metallurgy and will cover in one term the ground that is usually covered in three years.

This new subject will be given the second term for fourth year students only and in the future will form a regular part of Options 2 and 3. It will be taught by Professors Ross F. Tucker '92 and Walter C. Voss of the department of Building Construction and will be the first time that a course in building construction has been given outside of Course XVII.

Corrosion Rate of Cast Iron Water Pipes Investigated in The Chemistry Laboratory

Velocity of Water and Composition of Water are Large Factors

Often the safety of life and property depends upon the strength of cast iron pipe. Engineers have long been able to design pipe lines which were mechanically adequate when first installed to withstand the stresses set up by expansion, shifting of the foundation, or any of the other ordinary stresses. It has always been necessary, however, to introduce a factor in selecting the thickness of pipe to allow for corrosion. In past years some contractors have regarded the corrosion factor solely as a factor "of ignorance." The result has been that many disastrous fires have resulted from cast-iron valves and fittings allowing gas to escape and pocket in the basement of buildings, for although the pipe was sufficiently strong when installed, the corrosion due to water has so eaten into the metal as to make it porous. Of particular importance is the rate of corrosion in its relation to mining and marine engineering. The makers of cast iron pipe in America decided that this "factor of

ignorance" must be eliminated or at least studied. It is for this reason that day and night for over eight thousand hours machinery has continuously stirred metal strips suspended in stone crocks of water, in the pit of Building 2.

When experiments were started slightly over two years ago, the Sectional Committee on Specifications for Cast Iron Pipe instituted a program leading to more definite standards for cast iron. Among other things, it was essential to determine the effect of various kinds and methods of manufacture and changes in chemical composition on the resistance to corrosion.

Professor Forrest Chosen

In view of the previous work of the Research Laboratory of Applied Chemistry in this field it was decided to have the research carried on at Technology. Professor H. O. Forrest was chosen as chairman of the sub-committee on submerged corrosion. The first problem encountered was the development of a method of required accuracy, and representative of actual service conditions. After this was satisfactorily accomplished, tests were (Continued on Page 4)

Have You Secured Your Registration Material?

Students who have not yet obtained their registration material for the second term are reminded that they must do so immediately from the Information Office. The registration material must be returned to Room 3-106 not later than one o'clock, Friday January 17, to avoid the fine of \$5.00

CRIMSON CAGERS FAVORED TO WIN IN NORWICH GAME

Visiting Team Expected To Be
In Better Condition
In M. I. T. Game

DANCE TO FOLLOW GAME

Technology will face the Norwich quintet tomorrow night in their fourth game of the season. Although the Engineers are out of shape due to the vacation, they are rapidly getting into condition for the coming game. The Norwich team which will have played two games preliminary to the Technology meet tomorrow night, is expected to be in better condition. The crushing defeat suffered by the Norwich cagers at the hands of Dartmouth five, however, makes the Engineers favorites to win the game tomorrow night.

Norwich Meets Harvard

Tonight the visitors meet Harvard, and the way they match up against the Crimson quintet will probably be a good indication of what the final score of tomorrow's game will be. Harvard is decidedly considered the favorite to win tonight however, as N. U.'s offense against the Big Green was weak. Most of the shots scored by the Norwich five against Dartmouth were made on long tries for the basket.

Norwich, however, played an excellent (Continued on Page 3)

R.O.T.C. HONOR GROUP WILL BE ORGANIZED

Best Drilled Freshmen To Be
Selected in February

Announcement has recently been made by the Military Science Department that a new Color Company will be organized at the beginning of next term, of picked members from the six freshman ROTC companies. Officers for the new company will also be selected on a competitive basis.

Ten percent of the men from each of the six present companies are to be recommended by the Company Captains for admission to the prize group, freshman sergeants thus selected may have their choice of joining the new company or of remaining with their original unit.

SALE OF SIGNUPS TO CONTINUE NEXT WEEK

Committee Offers Delinquent
Students New Chance

Sale of the Junior Prom signups which was discontinued before Christmas vacation will be opened again next Monday and will continue for one week. This is being done in order that those students who were unable for financial reasons to purchase a signup in the first campaign will have an opportunity to obtain one now.

Table reservations may be made at the same time as the signup but all reservations which are not paid for by Wednesday will be forfeited. The sale will continue for the remainder of the week and any reservations for tables after Wednesday must be paid for when made.

Redemption of the signups will start on Registration Day and will be held until a few days before the Prom. A desk will be maintained in the Main Lobby from 12 until 2 o'clock for those students who desire to purchase a signup.

CHANGE TUITION FOR SECOND TIME IN THREE YEARS

Varsity Tankmen To Face Bowdoin In Meet Tonight

Team Has Strength and Power
To Repeat Victory of
Last Season

After a long period of intensive training, before and since vacation, the Technology Varsity swimming team is prepared to repeat the victory of last year over the Bowdoin squad. The meet is scheduled to begin at 8 o'clock in the tank of the University Club. The Engineers have had a fair test of their strength in the interclass meet that was held shortly before the Christmas holidays. Bowdoin is an annual rival of Technology, and has always had teams of considerable strength.

Should Be Fast

Coach Dean has put his men through the final workout before the contest and hopes to see some fast times made tonight. Bowdoin is every bit as strong as last year, and is out to make amends for the 51-20 defeat which they suffered at the hands of the Engineers last season.

Tickets may be secured at any time at the desk of the University Club and at the Stuart Street entrance. Spectators at the meet are requested to use this entrance.

HONOR ENGLISH MEN TO TURN IN ESSAYS

E22 Tutorial Section to be Led
By Roberts and Seaver

Applications for the honor section in E-22 this year are to consist of a statement of one's choice of subject and a written essay on the chosen topic. The group of twenty men who are to be selected for the tutorial work have records of C or better in one half of their work of this term.

Professors Penfield Roberts and Henry L. Seaver are in charge of the work of the group. The only specified attendance will be a half hour conference and an hour group discussion each week. History, literature, government, and the fine arts will include the topics to be chosen and a fair amount of reading is necessary as a prerequisite.

Applications will be considered in their priority as well as merit, and the final date for applying will be January 20. Professor Roberts in Room 2-281 will receive the submissions.

INCREASE DUE TO HIGHER COST OF EDUCATIONAL WORK

Funds Will Help to Provide a
Higher Salary for In-
structing Staff

EFFECTIVE IN THE FALL

Decision is Made at Regular
Meeting of Corporation
Held Yesterday

An increase in tuition from the present rate of \$400 a year to \$500 a year was decided yesterday at the regular meeting of the Corporation. However this increased rate will not go into effect until the beginning of the fall term in 1931. This is the second time within three years that the Tuition rate has increased, the other change being made in March, 1927 when the rate was raised from \$300 a year to \$400 a year.

This action, which has been under discussion for some time, was taken for the purpose of helping to meet the increased costs of education. The annual operating expenses at the Institute, which in common with other engineering colleges, must maintain expensive technical equipment for instruction, last year amounted to more than \$850 for each student, compared with the tuition of \$400.

Raised to \$400 in 1927

In 1881 when Technology was but 26 years old the tuition fee was \$200, a figure which was not increased until 1906, when it was made \$250. In 1919 the rate was raised to \$300 a year, and in 1927 it was increased to its present rate. This move was made because of the increased costs of operating expenses and became effective in the autumn of 1928.

For the past few years the cost of education per student has been increasing a great deal and the Corporation felt that part of this expense should be borne by the student. The increased funds available from this move can also be used for the purpose of providing a higher salary schedule for the instructing staff. Many men turn to industrial work rather than teaching because of the small returns from the latter occupation. At the present time a man can make much more money in industry than he can in teaching, and consequently the Institute loses a great many men be- (Continued on Page 4)

Prof. Bunker To Talk on "From Molecule To Man" In Second Pop Science Lecture

Development of the Human
Body Will Be Explained
By the Lecturer

"From Molecule to Man" is the subject of a lecture that will be given by Professor John W. M. Bunker, Ph. D., of the Department of Biology and Public Health, today at 4 o'clock, tomorrow at 2:30 and Sunday afternoon at 4 o'clock. This is the second of a series of four lectures sponsored by the Technology Society of Arts. The lectures today and tomorrow afternoon are given for the benefit of the students of several High Schools of Boston and vicinity while the lecture on Sunday afternoon is open to the general public. Since all available tickets for that Lecture have already been disposed of, anyone who is desirous of attending the lecture is urged to come early before all the seats have been taken.

Dr. Bunker will, in his lecture, trace the development of the human mechanism, discussing cells, the tissues, molecules and the transformation of energy. He will also show microphotographic slides showing the de-

velopment of the salamander from the egg. Specimens and living examples of various forms of life from water insects to rabbits will also be shown in illustrating the growth of living things.

Motion Pictures

Motion pictures of the division of living cells magnified thousands of times will be shown and explained by the lecturer. The motion picture is one which was made in cooperation with the Eastman Teaching Films, and is said to be a striking demonstration of the value of motion picture photography in the field of biological research.

Two more lectures, to be given in February and March respectively, have been planned by the Society of Arts for the present season. "The Romance of the Metals," is the subject of a lecture, the third of this series, which Professor Robert S. Williams '02, of the Department of Mining and Metallurgy will present on Sunday February 9. The final lecture will be given on March 9 by Professor Maurice deK. Thompson '98, of the Department of Physics, and will deal with the subject "Electricity and its Chemical Effects."

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Official News Organ of the Undergraduates of M. I. T.

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News and Editorial—Room 3, Walker, Telephone Univ. 7029
Business—Room 302, Walker, Telephone Univ. 7415
Printer's Telephone—Hancock 8387 - 88

SUBSCRIPTION PRICE, \$2.50 PER YR.
Published every Monday, Wednesday and Friday during the College year except during College vacations.
Entered as Second Class Matter at the Boston Post Office
Member Eastern Intercollegiate Newspaper Association

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LEADERSHIP'S PRICE

KEEPING pace with the rising costs of steam, brain and chemicals, the Corporation has announced that beginning September, 1931, the tuition at Technology will be \$500 yearly. Affecting all classes except the present Junior and Senior groups, this decision means an increase in the student's education budget of one hundred dollars annually.

The "Why" of this step is brief. Students at the Institute received last year education costing their alma mater \$850, for which they paid but \$400. Even with the benefits derived from investments and gifts, the funds available were not deemed sufficient. In maintaining its undisputed leadership among educational institutions and its high standard of men and equipment, the Institute has found itself cramped. The only solution was that of making the student pay an amount more in keeping with the cost of the benefits he was receiving.

While this increase in tuition is likely to cause a loud objection from some of the less thoughtful of the student body, the serious man cannot but see its advisability. Technology's position has always been unassailable. If it is to be kept so, it is necessary that there be sufficient funds to provide competent men and adequate equipment.

A study of the figures of tuition versus costs of education yields illuminating evidence. While the operating expenses of the institute are four hundred percent what they were twenty years ago, the tuition is only double what it was in 1909. In 1906, when the tuition at Technology was raised to \$250, tuition at schools of liberal arts in the East was around \$150. At present, in spite of the fact that they have none of the expensive engineering equipment that Technology must use, the tuition at Harvard and Yale is \$400, while at Princeton it is \$450. The tuition expense at these schools has increased during the last twenty-five years one and a half times as much as it has at the Institute since 1881.

The Corporation's action is altogether in keeping with the general trend among educators throughout the world. The attitude has become widespread that the student should pay a larger share of the costs of his training, and the Institute's action is but a reflection of this logical viewpoint.

"DON'T PUT BEANS IN YOUR NOSES"

WHATEVER else engineering students may not become, however little they realize the seriousness of their profession, the majority usually simulate a certain degree of maturity before they have been in classes more than a few months. Some irrepressible morons retain an innocence which one supposes their parents find gratifying in this matter-of-fact age.

Such a "cute youngster" is the disturber of peace in Professor F. W. Sears' lectures in physics. He is a whistler—not the ordinary garden variety so numerous in all drawing rooms—but a nearly extinct species, a throw-back to the old days of pin-pricking youths and rod-wielding masters. His misdemeanors were so annoying to the class and lecturer that Professor Sears delivered an ultimatum—"Music or Physics". The music continued; the class was dismissed. And thus three hundred sophomores were denied a lecture particularly important due to the ominous approach of the mid-year examinations, and all because a child is not yet grown up.

The Sophomore Class president is taking steps of investigation. This is as it should be—such a matter is much better settled out of court. Perhaps Mr. Jenkins will give the offender a lollypop to amuse himself with in the lecture. A pleasant antidote for the childish ailment of the culprit might be a dunce-cap, something to appeal to his manner of thinking. Public warning of any sort may lead to other complications. There are still simple children in the Institute (witness the cow on the dormitory roof, the telephone pole in the corridor, the water fights, the hideously attired fraternity initiate seen occasionally on the streets) and the discussion may put them in mind of other pranks.

Be your age, men! Such school-boy stunts may have been thought funny in grammar school, but conduct of that nature necessarily deprives a whole class of essential work. It is grossly selfish, and hardly worthy of a second grade boy, to say nothing of a second year college student.

AS WE LIKE IT

Seats for this play and other theatrical attractions at box office prices may be obtained from the T. C. A. office, Walker Memorial.

"MILLE MODISTE" THE MAJESTIC

Second in the series of Victor Herbert revivals is the comic opera "Mille Modiste" being played at the Majestic this week and next. It is more than a revival of Victor Herbert and returns to the music lovers of Boston not only the light opera of a generation ago but hangs the success of the production on Fritz Scheff as it was entrusted to her in its premiere twenty-five years ago.

At the end of the first act she came out to answer the storm of applause and said in a few words how much the enthusiastic reception affected her, and brushed a tear from her eye to witness the fact. Her appearance with the drum in the "Mascot of the Troop" and the effectiveness with which she sang "Kiss Me Again" made it easy to understand why she was once known as the "little devil of grand opera".

The story about which the libretto is built is a conventional one and the humor quite as entertaining as it must originally have been. Very little "modern stuff" has been added to the lines although several verses have been added to some of the songs notably the "Culture Club of Keokuk, Ia.", feelingly done by Sarah Edwards.

For the dance lovers a modern touch was introduced by the Albertina Rash dancers led by the exquisite Marie Grimaldi. They danced to Herbert's music for a time that seemed hardly more than an instant. The program might easily have been lengthened to give them a slightly longer appearance or they might even have appeared a second time.

Detmar Poppen as the Comt De St. Mar sang "I Want What I Want" with all the crotchety vehemence of an old rounder and brought his fist down at the end of each verse till most of the dishes had bounced off the table. The work of the rest was entertaining but without particular distinction.

Experiment That Cost Ten Cents Is Start of Career

Arthur D. Little '85 Received Many Honorary Degrees During Life

Drawing from a life of varied experiences, Arthur D. Little '85, will address the freshman class on Monday afternoon. The men whose privilege it is to attend this talk have before them one of the most profitable hours it is possible to spend. Mr. Little has had a most interesting career, and has been influential in Institute affairs.

His early education was obtained in the public schools of his home city, Portland, Maine, and at the age of twelve he had decided to become a chemist. How this decision was reached he told in an interesting anecdote. He said, "One day at school the fellow who sat in front of me turned around and said that if I would give him ten cents he would show me some interesting experiments in chemistry. Well, I happened to have a dime, so after school we two went down town and bought five cents worth of glass tubing and five cents worth of sulphuric acid. With this under our arm, we went to my friend's house where he succeeded in setting up a hydrogen generator. As most kids do, we set it off too soon, and the result was a small explosion. This interested me most decidedly and we tried it again with better success. Then I went home and told my father that I was going to be a chemist."

Started a Remarkable Career

A ten cent piece has probably never started a more successful career than the one set in motion by these two experiments. From the public school Mr. Little went to the Berkeley School, then still pursuing his chemical education he entered Technology taking Course V. He took an active part in undergraduate activities and was instrumental in founding THE TECH and was editor in 1884. Upon leaving the Institute he became a chemist with the Richmond Paper Company, and within three years was acknowledged as an expert in the chemistry of paper making. In 1886 in partnership with R. B. Griffin he opened a commercial laboratory which has developed into the present organization of Arthur D. Little, Incorporated, Chemists and Engineers.

Among the offices held by Mr. Little the following are of particular interest; President of the American Chemical Society 1912-14, President of the American Institute of Chemical En-

"PLEASURE BOUND" THE SHUBERT

An itinerant musical revue is the attraction at the Shubert this week and next in "Pleasure Bound." Although not without a story there is still so little attempt to maintain any dramatic interest, other than a slight romantic thread, that the production is to all intents and purposes a revue. Among those featured in this Shubert production is Aileen Stanley whose rich mezzo soprano, commanding presence and easy grace make her every appearance occasion for long and hearty applause. A reception only slightly eclipsing that tendered Miss Stanley was given Phil Baker both for his comedy and for his fine work with the accordion. The applause which followed his appearance in repartee with a man in the right box was such that, refusing an encore, he was forced to come out and stand rather awkwardly through the succeeding number in order to quiet the audience.

Jack Pearl never failed to amuse with his linguistic gymnastics in the role of Herman Pfeiffer. Shaw and Lee, the dumb hobo duo, were very entertaining at times with their perfectly blank expressions and brown derbies. Their bovine antics make an excellent antidote to Chick Chandler's high pressure line.

Although there are really no musical numbers in this show which seem to be destined for very wide popularity, the music is well chosen and the dance numbers particularly well executed. Rosita Moreno was the outstanding danseuse of the evening and made the "Spanish Fado" a thing of supreme delight. Characteristic of the leisuress of the show was the blonde dancer on the left who solidered on the job, watching the wings out of the corner of her eye to make sure she was not observed.

"Pleasure Bound" comes to Boston a show which has been current for slightly over a year, first in New York and then five months in Chicago, and the original cast is still with it in its appearance here. Jack Pearl leaves this production at the end of its two weeks here to appear in Lew Leslie's "International Review" which is to have its premiere at the Colonial on the twentieth of this month.

gineers 1919, A life member of the Corporation M. I. T., President of the Alumni Association, Chairman of the Committees on Conservation of Fuels and Conservation of National Resources of the International Chamber of Commerce. In 1918 the University of Pittsburgh conferred on him the honorary degree of Doctor of Chemistry. During the war he not only developed dopes for airplane coverings, and a new process for acetone by fermentation but also invented the "suck-on" filter for protection against toxic smokes which has now been regularly accepted by the army.

Mr. Little is not only a chemist in the complete sense of the word but is also a brilliant speaker, and 10-250 should prove inadequate to seat all those wishing to hear the lecture.

Not a centipede contest, but a Dime Crawl, just another name for a campus dance is the way in which the women of the University of Oregon raise money for the foreign scholarship fund.

In New York it's the Smiths and the Cohens, but in Boston it's the Smiths and the Sullivans. Boston's new telephone directory lists more Smiths than any other name, but they are closely pressed by the Sullivans who occupy eight and one-half pages as compared with nine pages devoted to the Smiths.

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LARGE NUMBER OF ENTRIES EXPECTED IN HANDICAP MEET

Shaw and Broder Favorites in Sprints—Harriers Run Distance Race

150 MEN REPORT DAILY

One and Two Mile Relay Teams are Entered in 300 And 600-Yard Races

In spite of the fact that the shot put and the high jump will have none of the regular Varsity men entered in competition, one of the largest turn-outs in track history is expected for the handicap meet tomorrow afternoon. Over one hundred and fifty men are reporting daily for practice now and a good percentage of them are expected to participate in tomorrow's meet.

Shaw and Broder are still the favored combination for the sprints and the 300-yard dash, while Soisalo and Hughes are judged to be among the best of the rest of the field. All four of these men, have turned in exceptional times on the boards since the start of the training season over a month ago.

Relay Team In 300

In addition to the four mentioned above, the 300 will have all the one-mile relay candidates entered. These men are all trained for the 440 which they must run in the relay, and should be able to show up well in the shorter distance.

One of the best races of the afternoon will be the 600-yard run. In this race are entered all the members of the new two-mile relay team. These men are also trained for a longer distance than the race in which they are to run. They each run a half-mile in the relay and will be well able to weather the shorter distance.

Experienced Men in 1000

Conant, Kalleis, Marsters, Damon, and Burdick are the pick of the field for the 1000-yard run. These men are all experienced from the fall season in track that has just closed and should provide close competition for all comers.

The mile and a quarter race will bring back the cross-country runners into competition. Practically all of the harriers are entered in this race and will pit their strength against that of the newer men.

Both the shot put and the high jump entries are made up of non-Varsity men. The Varsity competitors in these two events will not compete in the afternoon meet, due to the meet in which they are entered for the evening. This should give all men a chance to make a good showing in these events.

FRESHMAN SWIMMERS WILL MEET MALDEN

Yearlings have Good Prospects For Success in Opener

Entering the 1930 schedule with high hopes of coming through with greater success than ever before, the Technology yearling swimming team will face Malden High School tomorrow night. The meet will be held in the tank at the Malden Y. M. C. A. Although last year's freshmen lost to the Malden schoolboys by the score of 32 to 30, the prospects for a victory this season are unusually bright.

The team this year is led by Captain Edward May, who holds the junior backstroke record for the city of Boston. His squad has a wealth of good material, which places it on a high level among the freshman teams of recent years. Some of the men who have shown up well since training started are Louis Flanders, who swam a very good race in the breast stroke event at the recent interclass meet, Alfred Willman, who starred in the dashes, and John Lynch, a creditable performer on the spring-board.

Coach Brown desires the presence of all the men on the squad at the meet. The team will assemble in the West Lounge, Walker Memorial, at 6 o'clock.

SKETCH BOOKS ARE FREE TO STUDENTS

At various times it has been possible to secure sketch books at the Information Office which contain sketches of many views seen around Technology. There will be another allotment available in a week or so which can be acquired free of charge by the students.

Students at the Ohio university are having a wrangle with the city officials there about the right of students from other towns to vote in the local municipal elections.—The Green and White.

Events Scheduled for Saturday's Track Meet

- 45 yard low hurdles
- 45 yard dash
- 300 yard dash
- 600 Yard dash
- 1000 yard run
- 1 1/4 mile run
- High Jump
- Shot Put

Basketball Team To Meet Norwich Tomorrow Night

Lamson's Harvardians to Play For Dance Which Will Follow Game

(Continued from page 1)
lent game against Wesleyan and against Yale, and will give the Engineer quintet a hard fight for victory. Although M. I. T. lost the last game to Harvard, they still bid well to be one of the outstanding basketball teams in New England.

Coach McCarthy had his men practicing shooting, topping off practice a short scrimmage. He expects them to be in excellent condition for the game, in spite of the few practices that have been held since the holidays.

Dance After Game

After the game tomorrow night, the first after-game dance will be held in the Main Hall of Walker. Tickets have been on sale in the Main Lobby for several days, and sales so far point toward a huge success for the latest social innovation. Tickets may be purchased at the gate tomorrow night, and students are urged to back the affair to insure the success of future dances after every game.

Music at the first dance will be furnished by six pieces of Roy Lamson's Harvardians, and the affair will last until 12. The fifty cent admission admits a couple to both the game and the dance.

After the game tomorrow night the team will have a rest until after examinations, although they have a game on the Saturday of vacation week. Their next game will be with Middlebury at Middlebury, playing Yale on the Tuesday after the opening of the new term.

Opportunities in Graduate Engineering Study Are Surveyed by Pittsburgh Dean

Seig Tells of New System in Operation at University Of Pittsburgh

The attention of many engineering educators is being directed to the problem of graduate cooperative work for engineers. With the purpose in mind of acquainting college students with the work that has been undertaken to provide suitable opportunities for those who wish to continue their studies after graduation, Dean L. P. Seig of the University of Pittsburgh, co-operating with the Westinghouse Electric and Manufacturing Company, has explained the system in operation at Pittsburgh in a circular sent out to the college press of the country.

Dean Seig, who is in administrative charge of the program says in part: "Industrial organizations and engineering educators have, undoubtedly, long felt that mutual benefits could come through a co-operative educational effort. As graduate schools developed the country over, it soon became apparent that graduate enrollments in engineering courses lagged far behind such enrollments in the liberal arts subjects. There will, and of course always should be, a small group of young engineers whose interests in their undergraduate years have steadily drifted toward the theoretical sides of engineering—toward the fundamental subjects of physics, mathematics, chemistry, etc., out of which will come the raw materials for future engineering researches.

Many Seek Employment

"There is, however, a much larger group of students who, upon graduating, seek at once engineering employment. Sensing the need of further training for these newly employed engineering graduates, the Westinghouse Company had for some years been operating intensive courses of study. The employees spent the greater part of their first year or two with the company in directed study under the guidance of a number of their senior engineers."

This training on the part of the company was the basis for the course since instituted by the University of Pittsburgh. "The plan was for the University to inspect the courses given, translate them into educational currency, that is, credits, and to plan for further training to complete the requirements for the award of graduate degrees. A common understanding was soon reached. The engineers of the company engaged in conducting the classes were made members of the

P. T. COMPETITION OPENS NEWEST OF TRACK NOVELTIES

All Men Registered With 80% Freshman Subjects Are Now Eligible

MAXIMUM SCORE IS 100

Limit Number of Trials Given To All Contestants in Eight Events

Before Christmas vacation, the first season of P. T. competition in track got under way with trials in the shot-put. In these first tryouts over sixty men competed for points in the scoring system. The completed rules and points system have now been released by Coach Hedlund as the system that will govern the competition until the close of the season on March 29, 1930.

Must Enter Seven Events

Under the rules of the competition each man is obliged to compete in seven of the eight events that will be held throughout the winter season. The eight events to be held are: High Jump, Shot Put, Broad Jump, 45-yard low hurdles, 45-yard dash, 440-yard run, 880-yard run, One-Mile run. If a man does not compete in at least seven of these events his points will not be valid in the final scoring for the medals to be given out at the track dinner at the end of the season.

Option in One Event

The option in one event is given so that a man need not compete in an event for which he is not qualified physically. There may be an event which would be an over-exertion for certain men or for which they are not physically built. In the seven events in which the man competes he must score in all of them or else his points will not count towards the medals that will be given at the end of the season.

Only freshmen are allowed to compete in the competition. Any man who is classified as a freshman at the Dean's office may compete provided he is registered for at least 80% of

his total hours in freshman subjects. A man may try out in the different events any afternoon in the week that he is out for P. T. At least three men must start in a race on the track in order that points may be scored. This is done to create a better competitive spirit and thus better the times of the men competing. All performances must be made in the presence of either Coach Hedlund or Coach Bowie, and a record turned in to the manager of track of the time made and the points awarded.

Limited Number of Trials

In the field events a man is not allowed more than six trials in one event and in the track events he is allowed four trials. This is necessitated through the shortness of the season and is done so that every man may have a chance to compete in all of the events. A complete record of the performances made and the points awarded individuals will be kept in the track office and will be open for inspection at all times.

Records Taken As Standard

In the award of points the Technology freshman records are taken as the standard. For a performance equalling the existing record, 100 points will be awarded and other performances will be rewarded by a graded scale of points down to one. For any performance that is better than the existing record a correspondingly higher award will be made.

The following is a summary of the more important awards for the competition:

45-yard Dash		Points
5:0 seconds	.....	100
5:1 seconds	.....	95
5:2 seconds	.....	90
5:3 seconds	.....	85
9:0 sec. lowest scoring time	.....	1
440-yard Dash		Points
50:3 seconds	.....	100
50:4 seconds	.....	99
51:0 seconds	.....	98
51:1 seconds	.....	97
88:0 sec. lowest scoring time	.....	1
880-yard Run		Points
2:01:2	.....	100
2:01:3	.....	99
2:01:4	.....	98
2:02:0	.....	97
2 min. 50 sec. lowest scoring time	.....	1
One Mile Run		Points
4:36:1	.....	100
4:36:2	.....	99
4:36:3	.....	98
4:36:4	.....	97
5 min. 56 sec. lowest scoring time	.....	1
45-yard Low Hurdles		Points
5:3 seconds	.....	100
5:4 seconds	.....	95
6:0 seconds	.....	90
6:1 seconds	.....	85
10:0 sec. lowest scoring time	.....	1
Shot Put		Points
47 ft. 11 in.	.....	100
47 ft. 6 in.	.....	99
47 ft. 3 in.	.....	98

47 ft. 0 in.	.....	97
20 ft. 0 in.	.....	1
Broad Jump		
20 ft. 6 1/4 in.	.....	100
20 ft. 6 in.	.....	99
20 ft. 5 in.	.....	98
20 ft. 4 in.	.....	97
13 ft. 4 in.	1
High Jump		
5 ft. 11 1/4 in.	100
5 ft. 11 in.	99
5 ft. 10 1/2 in.	98
5 ft. 10 in.	97
4 ft. 0 in.	1

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SITTIN' ON A DOORSTEP } Fox Trots

YOU CAME, I SAW, YOU CONQUERED ME } Ted Wallace and His Campus Boys

Record No. 2058-D, 10-inch, 75c

MOLLY (from Motion Picture "The Grand Parade") } Vocals

THAT WONDERFUL SOMETHING (IS LOVE) (from Motion Picture "Untamed") } Charles Lawman



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NOTICES - ANNOUNCEMENTS

Of General Interest

Measurement of Air Flow **Dr. Sanford A. Moss**
Friday, January 10, 3 P. M., Room 5-134

Dr. Sanford A. Moss of the General Electric Company will give the last lecture in the series on "Measurement of Air Flow." The subject of this lecture will be "Computations for Air Flow Measurement."
 Open to students and members of the instructing staff.

Popular Science Lecture **Prof. J. M. W. Bunker, Ph.D.**
Sunday, January 12, 4 P. M., Room 10-250

Professor Bunker, Professor of Biochemistry and Physiology, will be the speaker at the Popular Science Lecture which is under the auspices of the Society of Arts. The subject of his lecture will be "From Molecule to Man."

Special Lecture for Class of 1933 **Dr. Arthur D. Little '85**
Monday, January 13, 3 P. M., Room 10-250

Dr. Arthur D. Little, Past President of the American Chemical Society, of the Society of Chemical Industry of Great Britain, and of the M. I. T. Alumni Association, will address a meeting of the Freshman Class on "Chemistry as a Science and Profession."
 The President requests the attendance of every member of the Class of 1933.

CALENDAR

Friday, January 10

5:15—Gym Team Picture, Basement of Infirmary
 8:00—Formal Dorm Dance, North Hall, Walker Memorial

Saturday, January 11

2:00—Gym Team Practice, Walker Gym
 8:00—Technology-Norwich Varsity Basketball Game and Dance.

Sunday, January 12

4:00—Popular Science Lecture on "From Molecule To Man", Room 10-250

UNDERGRADUATE

INTERCOLLEGIATE BALL

Persons who are planning to attend the Annual Intercollegiate Ball to be held at the Copley Plaza Hotel on February 14th are reminded that they may secure tickets from Harmon J. Truax at THE TECH business office, and from the cashier in charge of the recreation halls at Walker Memorial basement.

COLLEGE TRANSFERS

All College Transfers who are planning to take the special examination in history scheduled for 1:30 P. M. Friday, January 31, but who would prefer to take it at 1:30 P. M. Tuesday January 28, are requested to sign the petition in front of the Information Office immediately.

GYM TEAM PICTURE

The Varsity Gym Team picture will be taken this afternoon at 5:15 o'clock

in the Institute Photographic studio below the Infirmary. All Varsity men are urged to report promptly.

P. T. SUBSTITUTION

Freshmen substitution Track for second term P. T. must sign up in Mr. McCarthy's office before January 23.

CORPORATION XV

Corporation XV wishes to announce that a visit to the factories of the Gillette Safety Razor Company will be made this afternoon.

FRESHMAN LECTURE

The President, Samuel W. Stratton, request the attendance of every member of the Class of 1933 at a special lecture on "The Science and Profession of Chemistry", to be given by Dr. Edward D. Little '85 on Monday January 13th at three o'clock, in Room 10-250.

Annual New York Trip To Be Made By Course XV Men

Industrial Plants as Well as A Movie Studio Will Be Visited

Arrangements for the annual New York trip of Corporation XV which will be held the week after the mid-year exams are now being made. The trip will begin on Monday morning, February 3, and will last until Friday morning of the same week when the party will break up in New York.

The first leg of the excursion will bring the members of Corp XV to Providence where they will visit the shops of the Brown and Sharpe Tool Co., in the morning; and other industrial plants, which have not as yet been decided upon, in the afternoon. At night the party will leave for Bridgeport, Conn., where the next day will be spent. Negotiations are now being made for visiting several brass foundries and other industrial plants in that city.

Tuesday night the party will leave for New York where two days will be spent. Nothing has so far been planned for Wednesday when the men making the trip will probably be given an opportunity for some individual sightseeing. At night, however the group will again gather for a theatre party.

The Long-Island studios of the Paramount-Famous-Players-Lasky will be visited Thursday morning as well as the shops of the Curtiss Airplane Co. At the Paramount studios the men will have an opportunity to see the actual filming and recording of talking pictures. It has been proposed to visit shipyards in the afternoon. The next morning the party is scheduled to break up.

The cost of this trip is \$20. More details about the schedule to be followed and about incidental expenses may be procured in Room 1-180 where a poster has been placed.

The Corrosion Rate Of Cast Iron Has Been Determined

Learn Composition of Water Important Fact to be Considered

(Continued from Page 1)

made of from 20 to 300 days on 68 different lots of cast iron from many different foundries and made by several different processes. The actual number of individual samples which had to be cleaned, weighed, tested, cleaned and weighed again, was in the neighborhood of 1500.

The results of this investigation have shown that 70 percent of the samples, with large variation in chemical composition and method of manufacture, have corrosion rates within 20 percent of the average. No definite relationship has been found between the type of iron and its expectation of life except in high silicon or high nickel alloys which have very low rates. The results have indicated that changes in specification may be made in order to provide increased strength or to enhance other physical properties, without fear of any great effect on the rate of corrosion under water.

In general, the scheme of estimating the durability of a metal subjected to water corrosion is as follows: The metal in question is exposed to the action of water for varying periods of time. The loss in weight due to corrosion is measured and from these data the specific rates of corrosion are determined. From the specific rates of corrosion the service life of metallic pieces of varying thickness may then be computed.

Water Velocity a Factor

The method of determining corrosion rates, as developed in the Research Laboratory of Applied Chemistry consists of the following operations:—Sections of the metal to be tested are cut into small pieces and suspended from rotating discs in water, which is maintained at a constant temperature and which is constantly renewed. The

Thar's Gold in Them Thar Rills, Fellers

Unusual to the say the least are the activities on the Charles River during the past few days. Who would ever dream that right under our noses, so to speak, untold wealth was existing. Maybe it's gold, maybe it's oil, maybe it's anything or nothing but at any rate the activities on the raft and tug-boat furnish a much more interesting subject than math or chemistry for those students who are fortunate enough to have classes in Building 2.

ENGINEERS DEFEAT CRIMSON MATMEN IN OPENING MEET

Teams Travel to New Haven To Meet Yale Wrestlers Tomorrow Afternoon

YALE POWER UNKNOWN

(Continued from page 1)
 arm lock after 3 minutes and 11 seconds of wrestling. Vassolotti wrestled a good man, but Solano, formerly intercollegiate Champion, had the advantage of experience, and easily turned the Engineer over for a fall.

Captain Stone Wins

Beveridge, of Harvard finally succumbed to Captain Stone after an interesting match, although the Engineer grappler showed more experience. Stone, who led the offense during most of the match, piled up a large advantage, and in the last few minutes he was able to turn his opponent over with a head scissors and arm lock in 8 minutes and 52 seconds.

Ward lost to Newhart of Harvard in the 175-pound match in a one-sided contest. Although Ward was the aggressor throughout most of the bout, Newhart pinned him when he tried a flying tackle after clamping on a body and arm lock. It was the Engineer's first Varsity match, and his lack of experience gave the Crimson grappler the advantage. Newhart scored the fall after 2 minutes and 8 seconds.

Rabinow Loses

Captain Warner of Harvard scored another Crimson victory when he won over Rabinow with a large time advantage. Warner, who was the more experienced matman was smaller than his opponent and lacked the strength to turn Rabinow over for a fall. Rabinow, who wrestled the unlimited on the freshman team last year has improved considerably, but he will undoubtedly meet stiff competition in this class.

Freshmen Outclassed

In the preliminary, the yearlings lost by the large score of 33 to 5. Rippin, the 115-pounder on the freshman mat team was the only frosh to score a victory over his opponent. He outclassed his opponent and turned him over with a half-Nelson and crotch hold in 3 minutes 20 seconds.

Tomorrow afternoon the Varsity meets Yale at New Haven in the second meet of the season, and as it is the first meet for the Eli team little is known of the ability of the Yale matmen. The freshmen will face the Eli frosh in a preliminary meet at 2 o'clock. As in the Crimson meet, most of the Cardinal and Gray victories will probably be won in the lighter classes. The lineup of the teams to wrestle tomorrow will be the same as for the Harvard meet, although Coach Ricks has planned competition before every meet to determine the lineup.

The summary is as follows:

Varsity Matches

One hundred and fifteen pounds—Axford (M. I. T.) threw Chase (H.)

velocity of rotation and hence the velocity of water past the metal surface is controlled and maintained at any desired value. In this way it is possible to determine the specific corrosion rate of a metal while the effects of other facts are maintained constant. The closeness of control is indicated by the fact that in most cases, individual samples checked well within 2 percent. At present the laboratory is equipped to test 120 different materials simultaneously when operating at full capacity.

It was soon found that during the first few weeks after immersion the corrosion rate was considerably higher than after a period of two or three months. It was therefore found necessary to continue tests for periods varying from three to twelve months in order to obtain any reliable information as to durability of a metal when in actual service. The data obtained in these tests seem to agree fairly well with those obtained under actual service conditions and hence it is believed that this method, although it is not an accelerated test, affords a reasonable means for obtaining in a fairly short time, information regarding service life of metal subjected to aqueous corrosion.

with half Nelson and body hold in 8m. 26c.

One hundred and twenty-five pounds—Perkins (M. I. T.) threw Klein (H.) with an arm and body lock in 9m. 36s.

One hundred and thirty-five pounds—Negus (M. I. T.) threw Minis (H.) with half Nelson and body hold in 3m. 23s.

One hundred and forty-five pounds—Levine (H.) won by decision from Cooper (M. I. T.) with time advantage of 2m. 5s.

One hundred and fifty-five pounds—Solano (H.) threw Vassalotti (M. I. T.) with body and arm lock in 3m. 11s.
 One hundred and sixty-five pounds—Stone (M. I. T.) threw Beveridge (H.) with head scissors and arm lock in 8m. 52s.

One hundred and seventy-five pounds—Newhart (H.) threw Ward (M. I. T.) with body and arm lock in 2m. 8s.

Heavyweight—Warner (H.) won from Rabinow (M. I. T.) with time advantage of 8m. 5s.

Freshman Matches

One hundred and fifteen pounds—Rippin (M. I. T.) threw Keller (H.) with half-Nelson and crotch hold in 3m. 20s.

One hundred and twenty-five pounds—Bronstein (H.) threw Pearson (M. I. T.) with half Nelson and crotch hold in 5m. 15s.

One hundred and thirty-five pounds—Johnson (H.) threw Lovejoy (M. I. T.) with head chancery and arm lock in 9m. 8s.

One hundred and forty-five pounds—Crandon (H.) won by decision from Goldstein (M. I. T.) with time advantage of 1m. 56s.

One hundred and fifty-five pounds—Goddard (H.) threw Penning (M. I. T.) with crotch and body hold in 5m. 17s.

One hundred and sixty-five pounds—Keyser (H.) threw Ford (M. I. T.) with half Nelson and body hold in 9m. 4s.

One hundred and seventy-five pounds—Harter (H.) threw Barrows (M. I. T.) with head chancery and shoulder hold in 2m. 51s.

Heavyweight—Burrage (H.) threw Chepard (M. I. T.) with half Nelson and crotch hold in 3m. 10s.

MEN AT M. I. T. INFIRMARY

Friday, January 9

George J. Brady '32
 Morris L. Brown '33
 Ricardo E. Serrano '33

Fifteen students at the State College of Washington this fall are still too young to enter grade school. They are the tiny tots between the ages of two and five who comprise the nursery school, a division of the college of home economics.

Tuition Is Raised For Second Time In Three Years

Corporation Decides to Make Change Much Discussed In Past

(Continued from Page 1)
 cause its inability to pay them attractive salaries.

Due to President Samuel W. Stratton's absence from the city yesterday, his views on this action could not be obtained. However, in commenting three years ago on the increased rate passed at that time he stated, "The cost of education has been increasing in the last four or five years, while the tuition has remained stationary. The men we have on the Faculty have stayed with us through loyalty more than anything else, considering that they could make much more outside, and the Corporation feels that they should get a salary commensurate with that paid other workers in the same field."

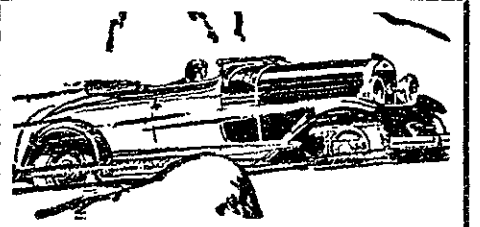
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