

## PROM GIRL CHOSEN; NAME TO BE KEPT SECRET

### Freshman Wrestling Team Shows Unusual Strength And Gains Overwhelming Victory

#### YEARLING MATMEN SINK BROWNE AND NICHOLS BY 24-5

Beavers Take Six Out of Seven Matches of Meet—Lose Only 135-Pound

#### THREE MEN WIN ON FALLS

By swamping Browne and Nicholas with a score of 24-5, the yearling wrestlers showed their phenomenal strength, which before this match has been covered under the superior advantages of teams such as the Yale freshmen. There was no cause in which the men did not prove themselves of distinctly remarkable skill, even in the bout which Fred Judd lost by a fall. The man who trimmed him has had an undefeated season, and is a candidate for all the honors in his weight this year.

#### Lem Wins on Decision

One of the fastest tilts of the afternoon and evening was the one between Lem, the Browne and Nichols 118-pounder who opposed him. Lem seems to fancy fighting on his back, much to the interest of the spectators, and the chagrin of the coach. In spite of this he manages to rest awhile, and squirm over into a winning position, before the opponent gains too much time on him. The match was a long one and Lem won on a decision, after scrimmaging wildly around the floor for the full period.

Three falls were scored by the Beavers, one going to Isbister in the one-forty-fives, another to Poole, 155-pounder, and the other to McCaughan, the 165-pound representative for Technology. These bouts were faster than any of those at Yale last Saturday, although they were not close, except at rare moments when the frosh, in shifting, lost the advantage for a time, only to regain it again.

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#### MARSHALL PLAYS FOR CATHOLIC CLUB

#### Group Holds Dance in Walker Memorial North Hall

For the dance which it is giving tomorrow night from 9 o'clock to 1 o'clock in the North Hall of Walker Memorial, the Catholic Club has secured Art Marshall's orchestra, the organization which played with such marked success at its first dance. Instead of using the Main Hall of Walker as was announced in the Friday issue of THE TECH, the dance will be held in the North Hall.

A large number of Emerson girls are expected to be present at the dance, for the Emerson College Newman Club is cooperating with the Technology Catholic Club in the affair. Over 350 couples were present at the Club's first dance of the season in November, filling Walker to capacity. Single subscriptions to the dance are 75 cents each; couples, \$1.50.

#### Navigators Chilled By Thirst for Skill

Some people just naturally thirst after knowledge. A group of these yearners might have been seen on the riverfront in front of the Institute on Friday morning about eight o'clock, apparently much interested in the other side of the river.

Investigation revealed that they were members of Mr. Woodbury's navigation class, which meets in the wee small hours of the morning. On Friday, they were getting acquainted with the sextant (not, by the way, a female sextant); they appeared to be quite busy keeping warm with one hand and trying to make the sun and the Back Bay horizon behave with the other.

#### Tech Show Staff Actively Working On Technicalities

#### Rehearsals of Cast and Chorus Will Not Discontinue Before Exams

Despite the disheartening effects of the forthcoming examination period, rehearsals for "Technicalities," the 1931 Tech Show, are continuing in full swing every night in the Walker Memorial gymnasium and no let-up is expected until examination week itself when rehearsals will be foregone temporarily.

Even with the excellent cast and chorus which has been secured this year, frequent rehearsals are quite necessary because of the intricate dance arrangements and unique skit effects, which, must be presented in perfect rhythm and with proper feeling. The stage and production departments as well as are not only engaged in active work in their conventional fields, but are conscientiously absorbing the several skits and dance numbers in order that a combined coordination of all departments will result in a first class production.

If one moves on a few steps from the Walker Gymnasium into the Tech Show office proper, he will find several members of the management not otherwise busily engaged intently absorbed in what at first inspection appears to be a large toy.

#### Squash Players To Compete For Three Trophies

#### Cups Donated By Captain of Boston Club—One Will Be Perpetual

To further augment the growing interest in squash at the Institute, Mr. Charles J. Emerson '04, captain of the Boston Athletic Association Class D team, has donated three large trophy cups for Technology squash players. One cup, the largest of the three, is to be a permanent trophy and the two smaller cups are for winners of a tournament to be held soon.

Mr. Emerson has done a great deal to aid squash at the Engineer courts. Interested in the game himself, he has kept in touch with Technology teams and has in past years offered services to them. Several years ago he sent members of the Boston club around to give the Engineers a knowledge of the game. When approached this year by the M. I. T. A. A. he gladly donated the cups.

#### Permanent Tournament Cup

The largest of the three cups is a large silver trophy about 18 inches in height. It is inscribed as follows: M. I. T. Undergraduate Squash Racquets, Perpetual Trophy. Presented by Charles J. Emerson. On this cup is to be inscribed the name of the winner of the 1931 tournament and then the cup is to be placed in the trophy room. In each succeeding year the winner of the tournament for that year will have his name inscribed on the trophy.

One of the smaller trophies is to be the reward for winning the 1931 tournaments. The other cup will go to the runner up in this tournament. Both cups are nicely proportioned and designed. The first cup bears the inscription: M. I. T. Undergraduate Squash Racquets, Championship 1931. The other trophy has the same inscription with the substitution of Runner Up for Championship. Both cups will be the permanent possession of the winners.

Coach Summers plans to run off the tournament for the cups and for the undergraduate championship soon after the beginning of the second term. Anyone who is an undergraduate of the Institute will be eligible for entry. The cups are now on display over at the desk by the squash courts.

In the squash racquet tournament (Continued on Page Four)

#### Oil Well Not Objective Of Drilling Operations

Multitudinous surmises and guesses, possible and impossible have been floating about the Institute for the past few days concerning the drilling operations that are being carried on near the site of the new building. Some freshmen were, in fact, convinced that oil was about to be discovered.

Investigation, however, revealed a far different state of affairs. The intriguing operations with the tripod and gasoline engine are experimental borings, being carried on by Professor G. Gilboy and Mr. S. J. Buchanan, of the Department of Civil Engineering. The location for the experiment was chosen because it had been disturbed already by the building operations.

#### SCIENCE LECTURE DRAWS BIG CROWD

#### Professor Bowles Speaks On Recent Developments In Radio Field

"In radio reproduction the work is done by so many different instruments, each one adding its own variation, that it is a wonder that we get the results we do," explained Edward L. Bowles yesterday afternoon to the large audience gathered in Room 10-250. Mr. Bowles as the second Popular Science lecturer spoke on the subject "Recent Developments in Communication by Radio."

Being interested in communications work since 1921, Mr. Bowles, Associate Professor of Electrical Communication at the Institute, is now in charge of that branch of the Electrical Engineering Department. In the lecture various phases of communication work were presented and illustrated by slides and experiments.

#### Novel Transmission

Earliest communications, explained Professor Bowles, were made by beams of light transmitted only as far as the eye could see. This was followed by the discovery of the telegraph and telephone which are entirely dependent upon wires for transmission. Now the transmission of electrical waves has come into prominence. To demonstrate the modern methods of communication he performed an experiment that consisted of all the different means of transmission in operation on the demonstrating table.

A record was played on the phonograph and changed from sound into electrical waves which went some distance over wires to operate a neon light at the same frequency of the electrical waves. This flickering was picked up with a photo electric cell, otherwise known as the mechanical eye, and changed back again into electrical waves which were transmitted and received over miniature radio sending and receiving sets. From there the waves were stepped up to 20,000 cycles per second. At a speed such as this the human ear is incapable of detecting the sound and when it was jumped across a short space not a thing could be heard. To reproduce the waves in the speaker it was necessary to revert them to (Continued on Page Four)

#### M. S. Instructor Proves His Mastery of Repartee

Many a tale has been recited about those big, smooth toned, nonchalant, bronco busters from the Wild West but the Sophomores who have had the pleasure of hearing a certain member of the Chemical Warfare instructing staff are now willing to believe there is such an animal. This husky soldier from out Arizona way drawled along night on to half an hour in sort of a Will Rogers style, with hardly a word about his own department but with a sparkling line that would do credit to the best of conversationalists.

Some of his gems best remembered were, "Now you have to keep awake in my class because sometime something important might be said." "... and most of the mules have had more service than the men leading them around."

### For Second Time In History Of Prom, A Musical Comedy Star Will Appear In Evening

#### Dr. Karl T. Compton To Address A.I.E.E. Winter Convention

#### Lecture Held in New York on Evening of January Twenty-eighth

Dr. Karl T. Compton will deliver the lecture at the forthcoming annual Winter convention of the American Institute of Electrical Engineers which will be in session in New York City from January 26th to 30th, it has been announced. A lecture by an outstanding leader in electrical science is one of the features of all A. I. E. E. conventions. About 1,800 electrical engineers are expected to be present at the convention.

Dr. Compton's lecture is listed for the evening of January 28th, following the presentation of the 1930 Edison medal to Dr. Frank Conrad of Pittsburgh. Two other men from the Institute, Harold E. Edgerton and Paul Fourmarier, are on the program of the convention, with a joint paper to be presented at a session on electrical machinery which will be held on January 30th.

Edward L. Moreland, of the Boston firm of Jackson and Moreland, is the author of a paper describing the suburban electrification of the Lackawanna Railroad, that will be presented at a session on transportation to be held January 29th.

#### Will Submit Plan To Revise Alumni Governing Body

#### Proposal for Reorganization Will Be Explained At Meeting Tonight

As a result of two years of intensive study to determine the means for a more representative government, a comprehensive plan for the complete reorganization of the Technology Alumni association will be presented at a meeting of the Alumni council in Walker Memorial tonight.

The major object of this study for alumni reorganization was to develop a plan for a more effective method of selecting alumni term members for the corporation, the governing body of the Institute.

The plan which is to be presented for the approval of the alumni of Technology would dissolve the present Alumni Council, which now consists of the president of the Alumni Association, three vice presidents, a secretary and treasurer, five past presidents, ten representatives at large, representatives of each class and of all Technology clubs.

#### House of Delegates

In place of the Alumni Council, the plan contemplates the creation of a house of delegates. The members of such a body, with their alternates, would be elected by local divisions of the total Technology alumni. The house of delegates, as outlined in the proposed reorganization, would consist of a president, vice president, fifteen delegates, and the five most recent past presidents, all of whom would have the right to vote. In addition, there would be a secretary elected by the corporation of the Institute, and a treasurer directly responsible to it to supervise alumni activities; fifteen alternates, and fifteen members of the corporation, all without voting rights. In this body would be vested the responsibility for the election of officers, the nomination of term members to the corporation, nomination of the alumni secretary, amendments to the constitution and by-laws, and election of standing committees, and other items of business.

Technology has approximately 20,000 living alumni, of whom more than 7,000 are at present active members of the Alumni Association. While groups of the Institute alumni in all other parts of the country and abroad have united to form local clubs, (Continued on Page Four)

#### BARNEY RAPP TO PLAY AT ANNUAL AFFAIR IN MARCH

#### Two Orchestras Will Furnish Continuous Music For Dancers

#### SIGNUPS BEGIN FEB. 11TH

Mystery shrouds the plans of the Junior Prom Committee, for they have only just divulged the fact that a "Prom Girl" will be one of the guests at the annual Junior Prom next March. Although her name will be kept a secret until the night of the dance, when she will be presented, the committee has hinted that she will come from one of the musical comedies on the Boston or New York stage.

As a precedent for this action there is the Junior Prom of 1929. For that event the committee announced a "Prom Girl," her name being kept secret until her presentation, when she proved to be none other than Polly Walker, the star of "Billie." She came as the guest of one of the members of the Committee, who saw very little of her during the dance, for she became the center of attraction the moment she arrived.

Barney Rapp and his Victor Recording Orchestra, now playing at Barney Rapp's night club in New Haven, will be another feature of this year's Prom. A number of years ago Paul White-man chose it as one of his units, and for three years the outfit toured the country carrying his name. After completing engagements at various famous hostilities throughout the country, Barney Rapp and his men came back to the big city to play in the Hotel New Yorker. Before coming to the Junior Prom in March, the orchestra will fulfill an engagement in Bermuda.

#### BOWDOIN NOSES OUT M. I. T. SWIMMERS

#### French Takes First in Diving, Lutz Winning Three

Natators from Bowdoin College defeated the Technology mermen in a meet at Brunswick, Me., to the tune of 46-31, last Saturday. The Beavers were in good form, considering their train trip, and the recent schedule, which has been very arduous, but failed to give the necessary snap which would have won the meet for them.

Captain Lutz came through in his usual good form, in the two dashes, and also in his lap in the 50-yard relay, which was won by the Institute team. French, of Technology, won the diving by a wide margin, none of the Bowdoin team coming within several points of his record.

Teague counted in for points, as he always does, in taking third in the 100-yard dash, and for his work in the relay.

#### McCarthy Bar Bell Is Approved by Students

With the Night Life number of Voo Doo hardly off the press, "P. T." McCarthy has already begun to receive the small information coupons found on the bottom of his "advertisements" which introduces the "McCarthy Bar Bell" to the school. Representatives of THE TECH have as yet been unable to discover which ailment has received the most checks by those returning the coupons, but the statistics, when compiled, should be of value to the Department of Hygiene. Nevertheless, regardless of what has been checked, the incoming coupons have proven definitely that the "McCarthy Bar Bell" has been approved by the student body.