

# TECH NEWS



VOL. 7

WORCESTER, MASS., NOVEMBER 23, 1915

NO. 11

## FITTON FIELD, THURSDAY

### RENSSELAER WINS

**Tech Fails to Break Into the Victory Column on Troy Field**

Outplaying at times—at times outplayed—Tech fell before Rensselaer to the score of 9 to 0 last Saturday. The annual contest was played at Troy, and the outcome was no less a surprise to the home team than to Tech players and students.

There is little to be said in explanation for Tech. Penalties, amounting in all to more than 150 yards, were in one sense Tech's undoing, but these do not prove an alibi for the team.

On a slippery field on which its most effective offense was worthless, the contest ended disastrously for the visiting team.

The Rensselaer men played the best game of the season and took advantage of Tech's misfortune in a creditable manner.

The first setback for the Worcester men came in the fourth play of the game when Worcester was penalized 40 yards. Rensselaer made first down, but the next three plays were stopped at the line and a field goal fell short.

The team as a whole played below its usual standard, the only man showing his true form being Mossberg, and even his runs were stopped at critical points by poor weather conditions, slipping being the rule rather than the exception.

Lockwood and McDonald were the best representatives of the winners.

Cassavant received the kickoff for Worcester on the 30 yd. line and ran it in five yards.

Stone punted on the first down to Lockwood who was thrown on his 24-yard line.

Two line plunges gave R. P. I. six yards and on the third play Tech received its biggest penalty for alleged infraction of the rules.

R. P. I. made its distance once, but two end runs were a loss and Lockman missed an easy field goal.

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### PROGRAM FOR THIS WEEK

Watch the Bulletin Boards

**THIS AFTERNOON, 5 P. M.** Big Mass Meeting at E. E. Bldg. Speakers: President Hollis, Professor Butterfield, Dr. Long, Coach Ostergren, Captain Banan, Manager Ward.

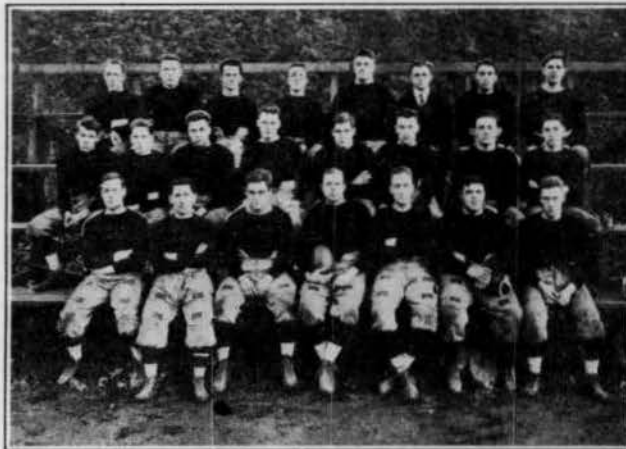
**WEDNESDAY MORNING**—Divisions Canvassed to ascertain number of students planning not to attend the game.

**WEDNESDAY NOON**—Division Canvassers report to Chairman Toombs.

**THURSDAY, 9 A. M.** Student Body meets at E. E. Bldg. to march or ride to Fitton Field. Band and lots of music.

**10.15 SHARP.** Kickoff.

**AFTERWARD**—Home to that Turkey.



THE SQUAD

### "Holy Cross Next"

**Season to Close Thursday with Purple as Rivals**

To close her most successful football season of recent years, Tech will invade Fitton Field Thursday morning with a team and a student body whose hopes of defeating or tying the Purple are running high. The contest this year promises to be the most evenly matched fray between the two Worcester rivals for several years.

The recent Tech slump gives the Institute team no cause for harboring overconfidence in the coming game; but there is every reason to believe that the team will hit its stride and play its head off in the attempt to once more subdue the Holy Cross rival. It has been said—notably by the Massachusetts "Aggies" coach—that in mid-season Tech had a stronger team than Holy Cross, but there is little on which to base a comparison of the development of the two teams since that time. Only the contest on Thanksgiving morning can tell which is the better team at present.

### Mass Meeting Tonight

In preparation for the big game a big and snappy mass meeting will be held in the Electrical lecture hall at five o'clock today.

If the number going to the game does not warrant the parade through Main Street that has been planned, special cars will be ordered and the students will ride to Fitton Field in these. The game is scheduled for  
(Continued on Page 5)

#### CALENDAR

**TODAY**—5 p. m. Mass Meeting. E. E. Building.

8 p. m. A. S. M. E. Meeting. E. E. Building.

**THURSDAY**—9 a. m. Students meet in front of E. E. Building.

10.15 a. m. Kick-off. Holy Cross vs. Tech.

12 M. Thanksgiving recess begins.

**MONDAY**—Thanksgiving recess ends.

### Cripples Made Useful

**Engineer Studying Big Problem, Will Speak at A. S. M. E. Meeting Tonight**

The first meeting of the Worcester local section of the A. S. M. E. will be held this evening at 8 o'clock in the E. E. Building. The address by Frank G. Gilbreth, a member of the Society, should prove to be a very interesting one. His subject is "Motion Study for Crippled Soldiers," and according to reports Mr. Gilbreth has spent a large part of the last fifteen months in the German trenches making a study of the wounded and crippled soldiers. It is his aim to approach the study as an engineer approaches  
(Continued on Page 5)

### THREE TECH SHOWS WRITTEN

**One Senior and Two Sophomores Try for Honors**

Three manuscripts for the 1916 Tech Show have been handed in to Manager Wheeler. The competitors are Thomas E. Child '18, of Hartford, Conn., title of play, "The Firing Line"; Arthur M. Millard, '18 of Norwich, Conn., title of play, "Uncovered Tracks"; and Winsor R. Davis '16 of Worcester, who has written the Tech play of the last two years. The judges of the plays will be Prof. Z. W. Coombs, Dr. O. W. Long, and coach Fred Carroll. Fred Carroll has coached Tech Shows for several years, and judging from the successes of previous years,  
(Continued on Page 5)

# TECH NEWS

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All checks should be made payable to the Business Manager.

The Tech News welcomes communications but does not hold itself responsible for the opinions therein expressed.

All material should be in before Thursday noon at the latest in order to have it appear in the week's issue.

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All communications should be addressed to Tech News, Worcester Polytechnic Institute

## THE DAVIS PRESS

NOVEMBER 23, 1915.

## HOLY CROSS NEXT

### Editorials

The week of November 29 will be devoted to the active collection of athletic dues from the many who have not yet pledged or paid the four dollar athletic assessment. Every student should arrange while at home to have this money ready for the division collectors. The Boynton Hall thermometer has remained stationary at a little more than \$1,000 for two weeks, and it is time to make the temperature rise.

### THE POINT SYSTEM

One defect in the control of Tech activities appears prominently: they are directed by too few students. College activities do not become truly representative when dominated by a few men; and many ill effects result when this is the case.

Examples have been all too numerous in the graduating classes of the past few years where students have accepted more responsibility than is good for them or for the activities which they are supposed to represent. It may be that the harder course of an engineering school prevents many from coming out for activities who

would otherwise do so, but that very fact should prevent any one student taking as much outside work as he might in another school.

The fact that there are those willing to accept—or, rather, unwilling to refuse—these "honors" is no argument for the present lack of system. If his own studies suffer, that is his loss and his look-out, to be sure; but when the activities also suffer, then he is playing unfairly with the school.

No student should be allowed to go beyond a certain limit in outside school work, though this limit is different in every case and varies greatly from the most capable to the least capable. It is this elasticity which makes difficult the formulation of rules governing the amount to be carried by a student; but despite the unfairness worked in some cases, a definite set of rules, carefully chosen, would lessen the evils of the present hit-or-miss system. It is not the purpose to discuss here what limits should be imposed, but to venture the hope that the Tech Council, which has already considered this matter, will act favorably on restricting wisely the individual student activities.

### THE GAME

It is the eve of the big battle. After a year's lapse of hostilities, Holy Cross and Tech are once more on the firing line; and now just before the first shot it is of more than passing interest to review the past, consider the present and discuss the future.

Between Boynton Hill and the hill across the Blackstone conditions have always been pugnacious; and for Tech it has of late been a losing fight. In the old days when any eleven men who happened along lined up in "triple tandem" and played until darkness set in, Tech and Holy Cross fought on even terms.

But since the beginning of specialized football, Holy Cross has had the better of the argument. Tech's engineers absorbed in intricate mathematical problems failed to realize the importance of the lessons obtained from the oblate spheroid. Only a handful of men retained interest in this form of solid; and consequently the 35 to 0 and 70 to 0 scores.

The new field, however, has brought appreciation of the value of athletics in general and football in particular. This year, for the first time, Tech has had a system in its football training. The system may have been imperfect; nevertheless it was a system and it has shown and is to show its results.

Thursday's game, no matter which side wins, will be a battle royal. Holy Cross has the better record; but records are valueless. By a "logical" comparison of records it can be shown that Holy Cross could defeat Harvard. So much for scores! Thursday's game will be decided when the final whistle blows.

As for the future it should always be remembered that this year is the beginning; and the future will take care of itself. On to Fitton Field!

### ADMIRAL LITTLE NOT TECH GRAD.

The statement in the News of November 9 that Rear-Admiral Little is an alumnus of W. P. I. is incorrect. As stated in the News of October 25, Admiral Little taught mathematics at the Institute about thirty years ago.

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### GLEE CLUB CONCERT AT PIEDMONT

Tech Concert December 8

The Glee Club, with the Quartet and Reader gave a very successful concert for the Men's Club at Piedmont Church last Thursday evening. The program consisted of several numbers by the Glee Club and Quartet, a pianologue by the pianist, a mandolin solo, and selections by the Reader. The Glee Club was well applauded, the Quartet outdid itself, in its efforts to entertain, and a pianologue by Munz and a mandolin solo by Colburn made a pleasant diversion. Tommy Farnsworth, as usual, brought out laughs from the audience. At the conclusion of the entertainment the Club was treated to a "feed" and "smokes."

Preparations for the concert in the E. E. Lab December 8th, are being rapidly completed and everything seems to indicate that this concert will be the most popular event on the Hill this year. Tickets will be on sale immediately after the Thanksgiving recess and every man should plan to buy at least two. The management hopes to have such a large advance sale of tickets that some other hall will have to be hired in order to accommodate the audience.

### SUCCESSFUL LADIES' NIGHT

E. E. Society Holds Entertainment and Dance

A lecture by Willard B. Hall, of the Westinghouse Mfg. Co., illustrated by four reels of movies describing the use of electricity in the home; this followed by dancing were the principal features of the most successful "Ladies' Night" in the history of the E. E. Society. After the lecture dancing was in order on the balcony where light refreshments were served. The music was furnished by the Tech orchestra.

Through the courtesy of the Worcester Electric Light Co. five pieces of electric ware were given to the ladies whose tickets held the lucky number. Those who were favored and their gifts are as follows: Mrs. A. W. French, coffee percolator; Miss Bertha Mitchell, a flat iron; Miss Gladys Berry, curling iron; Miss Lena Ashworth, toaster stove; and Miss Helen Wright, toaster.

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### PRESIDENT HOLLIS PRESIDES

Security League Passes Resolves

"Whereas we believe that the question of national defense is the most vital now before the people of the United States; now, therefore, be it

Resolved, that we, citizens of Massachusetts, in mass meeting assembled, do urge upon our public officials and representatives in congress, the necessity of an immediate and thorough examination into the condition of the armed forces of this country.

And we further urge upon such officials and representatives the enactment of such legislation as may be required to enable the United States to successfully resist armed invasion."

Friday evening in Mechanics Hall before a mass meeting of two thousand people, President Hollis presented the above resolutions and had them accepted by a unanimous vote.

The adoption of those resolutions was preceded by speeches by President Hollis, by President MacLauren of M. I. T., and by F. B. Boyer. All the talks emphasized the necessity of "preparation for peace" and were received with enthusiasm.

R. A. Waite, ex-'15, was married last week to Miss Clara E. Currier, of Claremont, N. H.

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**CRIPPLES MADE USEFUL**  
(Continued from Page 1)

any technical problem and by observation and study of the motions of many cripples he expects to obtain results that will indicate what these maimed soldiers will be capable of doing. If he is at all successful in his efforts, the results should prevent the placing of thousands of cripples on a veritable human "scrap-heap," and the social and economic conditions of the warring countries would be immensely better than with this body of men idle and useless. A stereopticon will illustrate the lecture.

**BIBLE STUDY**

Most of the Bible Study classes for Tech students are now under way. About two hundred students attend these classes each week. They meet in the churches on Sundays and in the fraternity houses and on the Hill on weekday evenings. As the course has only recently started it is not too late for any other men to enroll. A list of the classes with their leaders follows:

- Central Congregational Church, Prof. A. D. Butterfield.
  - Plymouth Congregational Church, Dr. Farrington Daniels.
  - Old South Congregational Church, Mr. P. E. Tolman.
  - Piedmont Congregational Church, Mr. Chas. S. Sagar.
  - First Baptist Church, Dr. Allyn K. Foster and Mr. Harry G. Stoddard.
  - Pleasant St. Baptist Church, Baraca Class.
  - Trinity Church, Baraca Class.
  - Church of the Unity, Prof. H. P. Fairfield.
  - All Saints Episcopal Church, Rev. D. K. Johnston.
  - Friends Church, Mr. Ware and Mr. G. O. Pierrel.
  - Lambda Chi Alpha, Prof. Charles I. Adams.
  - Delta Tau, Mr. Herbert N. Carleton.
  - Sigma Alpha Epsilon, Mr. J. A. Spaulding.
  - Phi Gamma Delta, Dr. Allyn K. Foster.
  - Alpha Tau Omega, Dr. Henry Stiles Bradley.
  - Phi Sigma Kappa, Dr. James Bullard.
  - Theta Chi, Leon Treadwell.
  - Chinese Group, Winthrop Hall '02.
  - Campus Group, Rev. William A. Lee.
- Union Congregational Church has a group at which all Tech men are welcome. The Campus Group meets Tuesday evenings in the Y. M. C. A. room.

**G. F. QUIMBY WILL SPEAK**

On Monday evening, November 29, Tech and Clark men who are doing industrial service work will meet at Putnam and Thurston's at 6 p. m. After dinner they will be addressed by the head of this work at the Fall River City Y. M. C. A., Mr. George F. Quimby. Any Tech students who do not teach but are interested are invited to come in at 6.45 and hear Mr. Quimby.

**SOPHOMORE CONSTITUTION**

At a recent meeting of the Class of 1918, it was voted to have a constitution drawn up. For this purpose, a committee was appointed, consisting of R. H. Taylor, N. C. Firth, and J. E. Kyes. This committee is now gleaming ideas from the constitutions of the upper classes, and will report soon on the matter.

**PERSONALS**

Prof. Z. W. Coombs is as busy as usual, as testified by the following:

He was recently elected a trustee of the Union Bible Society at their 99th Annual Meeting; also he was chairman of the judges at a recent debate between the Young Men's Hebrew Association of Worcester, and the West End Debating Society of Boston; and was the speaker before the People's Forum of the South Memorial Unitarian Church on Sunday, November 21. His subject was, "Vocational Guidance in Education."

A misfortune which has aroused the sympathy of all Tech men was the recent burning of the Frary Spool Shop at Charlemont. G. H. Frary '88, is the head of the establishment. Its destruction takes away temporarily Charlemont's sole industry. Many Worcester people noticed the red glow in the sky. Mr. Frary's loss is estimated at \$10,000.

J. W. Kendrick '73, recently completed a report on the possibilities for rehabilitation of the Rock Island Railroads. He estimates that \$27,000,000 and five years' time would be required. Mr. Kendrick is prominent in Railroad Engineering, having been at one time vice-president of the Santa Fé Railroad. He traveled through Worcester recently in his private car, which is an additional token of his success.

F. A. Foster '82, who is professor of drawing and workshop practise in the Tangshan Engineering College, at Tangshan, North China, writes that there is a splendid opportunity for American machine tools in the Orient. The peculiar circumstances under which China is put by the war and the boycott of Japanese machinery, gives America a splendid opportunity, Mr. Foster says. We are glad that Tech men are busy on the other side of the world, as well as nearer home, and that they are, like Mr. Foster, eager to boom home industries.

**SIGMA XI MEETING**

Sigma Xi, Tech's honorary scientific society, held an interesting meeting last Tuesday evening in the E. E. Hall. The speakers were Prof. W. W. Bird and F. W. Roys of the Mechanical Department, who presented data collected in their joint experiments on the loss of power in belt drives.

In the business session, Henry R. Power, of the chemistry department, was elected recording secretary, completing the list of officers for the coming year. Those who had previously been selected are: President, Dr. Frederic Bonnet; Vice-President, Prof. H. C. Ives; Treasurer, Prof. C. A. Read; Corresponding Secretary, Assistant Prof. R. K. Morley; Councillor, Prof. A. W. Ewell.

**CHEMICAL NOTE**

John C. French '13, has accepted a position with the Canadian Explosives Company, and he is chemist at the plant at Parry Sound, Ontario, Canada.

**PUBLICITY COMMITTEE**

In order to promote systematic publicity work for the Holy Cross game and other coming events, the Tech Council has selected a Publicity Committee, made up of H. M. Toombs '16, F. P. Butler '18, and J. F. Kyes, Jr. '18. This committee is already on the jump, and it is expected that their efforts will play a part in the success of future school projects.

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### THE WASHBURN SHOPS

The attention of the readers of the News is called to an article entitled "The Washburn Shops of the Worcester Polytechnic Institute," printed in the July, 1915, issue of the JOURNAL of the American Society of Mechanical Engineers. This article, by George I. Alden, contains a table and three curves. A reprint of this is on the table of the Mechanical Engineering Library and others for free distribution may be had on application in the Boynton Hall Office or in Room 202 M. E. Building.

The opening paragraphs are devoted to a brief history of the founding, and the aim of the founder, Ichabod Washburn. Following, the achievements are taken up in detail; the first is the continued existence of the Shops; the second is that they have proved it possible and practicable for commercial shops devoted to instruction to be largely or entirely self-supporting; the third is that they have established the fact that the only place in which to teach successfully the application of science to mechanical industries is in the commercial shop; and the fourth is that they have proved a benefit to the students who have been trained in the Shops. In the third division of his subject he brings out the point that the work in the Shops has not reduced the amount of, or taken the place of academic instruction. To support this he includes data and three charts from "Technical Education for the Professions of Applied Science," by President Hollis, which contrast the hours devoted to the seven main divisions of engineering preparation in the Worcester Polytechnic Institute, the Massachusetts Institute of Technology, and the University of Michigan. Two advantages arise from such a course of study as the Shops make possible: one, the degree of shop experience as broad as shop business permits, and the other, the opportunity to bring theory into a closer relation to practice. In addition, the advantages to the student are as follows: first, the possession of mechanical skill has a value which is sometimes much undervalued; second, the shop experience helps one to get an early start; and third, there is an economy of time gained by weekly practice. He next considers the effect upon machine standardization and design, and upon the maintenance of business organization due to the training of engineers in both school and shop. In closing he mentions other institutions founded earlier, and states that, whereas they leave a wide gap between practice and theory, the Worcester Polytechnic Institute has, by the plan of Mr. Washburn, covered the whole ground.

### CHEM. CLUB MEETING

At a meeting of the Chem Club held last Tuesday night, R. H. Keinle gave a very interesting talk on the production of ammonia from cyanide. Mr. Keinle spoke from his experiences at the Dupont powder works in Allentown, Pa., and the discussion was very instructive as well as entertaining.

The new constitution was then taken up and after some discussion was adopted. It has many new features; the students eligible for membership have been increased, and a faculty member has been added to the executive committee. The Secretary was also empowered to appoint a publicity committee. After the meeting refreshments of cheese, sandwiches, doughnuts and ginger ale were served.



### EXCHANGE NOTES

Inter-class debates are being started this year at the Polytechnic Institute of Brooklyn.

This year Brown is trying a new fraternity rushing agreement by which no men will be pledged before the Monday following Thanksgiving.

A rather unique organization, a defeated candidates' club, has had its third birthday at the University of Washington. It was founded by a popular cheer leader who lost a desired office and evidently had a sense of humor.

Students in one hundred twenty-three universities and colleges in the United States are subject to the honor system.

R. I. State College has a Student Council which tries men for violation of Freshman Rules.

New Hampshire State plans to adopt some kind of honor system in the near future.

Trinity College still firmly holds to her position that men may play baseball in the summer for pay without becoming professionals. Columbia cancelled her game and Holy Cross refused to schedule a projected game for November 12.

Beloit has a rather unusual peculiarity in her Point System. Men there are given points for self-support.

The University of Maine has captured the state championships in both football and cross-country.

Carnegie Institute's new Y. M. C. A. is getting an enthusiastic start.

Colby students recently started a riot by attempting to remove University of Maine banners from the side of the U. of M. special while it stopped a minute in Waterville.

The Sophomore class at Carnegie Institute of Technology recently chipped together to send a man to the Case game. The man was chosen by lot.

New Hampshire College is trying to organize a rifle team to represent the college in inter-school competitions. All Sophomores are required to take rifle practice as part of their school work.

Clark College is trying rushing rules for the first time this year. Thus far the experiment has caused much friction and has been anything but a success.

Practically all of the workmen employed at the new M. I. T. plant on the Charles River have struck. It is expected that they will soon be back at work and that the buildings will be dedicated, as planned, on June 14, 1916.

Maine University is going to have a Thanksgiving recess of only one day this year. Students have petitioned the administrative board to give them the usual five days.

Rhode Island State has voted to resume athletic relations with Connecticut Agricultural College.

Trinity College students have recently been taking a course that is not in the curriculum,—namely a course in strike-breaking. They have been taking the place of Hait and Hegeman Company employees who are out on a strike.

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**RENSSELAER WINS***(Continued from Page 1)*

Tech scrimmaged on the 20-yard line and made first down in three tackle plays. Mossberg fumbled a poor pass from center and R. P. I. recovered on Worcester's 30-yard line.

R. P. I. failed to score another kick, and Tech scrimmaged. Stone kicked to the 30-yard line. R. P. I. made 10 yards on a forward pass and after failing to gain in the line, Lockman dropped back and scored a drop kick from the 40-yard line.

Cassavant received the kickoff on the 20-yard line and returned it 15 yards. Tech was penalized 15 yards and lost the ball, but Kalagher recovered a fumble just before time was called.

At the beginning of the second half Stone received the kickoff on the 15-yard line and ran it in 25 yards. In this period Tech clearly outclassed R. P. I. Mossberg made first down on a 12-yard run around right end, and after a line plunge Weitzen made another first down through center.

Mossberg skirted right end from kick formation for 20 yards. Two losses followed. Then Weitzen gained 15 yards on a forward pass, but failed to make first down by a yard.

Stone stopped an end run for a 5-yard loss, and Weitzen received a kick on the 20-yard line. R. P. I. interfered with Stone on a forward pass and was given a 15-yard penalty. Worcester made 11 yards in four plunges.

R. P. I. recovered a fumble and Tech then recovered an R. P. I. fumble.

Weitzen made 5 yards, but Mossberg slipped and failed to gain on two end runs. Worcester kicked offside to R. P. I.'s 30-yard line. R. P. I. made 10 yards on a forward pass and followed this with 25 more the same way.

On a fake kick formation Macdonald took the ball around right end for a touchdown.

A punt out failed and time was called soon after the next kick-off.

The line-up:

R. P. I.	W. P. I.
Frank le	re Duffy
Bickel lt	rt Cassavant
Van Houghton,	Kiersted lg
	rg Wiedenmann
McKenzie c	e Sargent, Canfield
Firth rg	lg Storrs, Canfield, Lemay
CConnell rt	lt Bannan
McDonald re	le Stone
Irish qb	qb Weitzen, Dunbar
O'Hara lhb	rhb Royal, Sherwood
Kriel rhb	lhb Mossberg
Lockman fb	fb Kalagher

Score, R. P. I. 9. Touchdown, McDonald; Goal from field, Lockman. Referee, Granger of Springfield. Umpire, McDonald, Brown. Linesman, Pierce, Williams. Time, 10 minute periods.

**SECOND TEAM LOSES**

**Gardner High Wins Exciting Game 26 to 14**

The Gardner-Tech second game Saturday afternoon on Alumni Field was an exciting game from start to finish. The two teams were fairly well matched and the game was hard fought, the high school team taking first honors, 26 to 14.

Gardner started the scoring by getting away for two touchdowns in the first period. Then Tech started out and ploughed through the rather weak defense of the Gardner team for two touchdowns and kicked both goals besides, taking the lead by 1 point. The third and fourth periods found Tech scoreless while Gardner added two touchdowns to their score.

The game was marked by numerous fumbles, Tech's slips being directly responsible for three of Gardner's scores. In the backfield Child did some fine work, ploughing through the line time after time for substantial gains. Horne at tackle was the mainstay of his side of the line. Linnell and Bourne were the most consistent players on the Gardner team.

The summary is as follows:

GARDNER H. S.	W. P. I. SECONDS
Greenwood, Osterholm le	
	re Bubier, Herliby
Seaver lt	rt Magown, Rutherford
Johnson lg	rg Howes
Knowlton c	e Haycock
Ball, Jaspon rg	lg Zubinsky, Welsh
Kalyavi rt	

It Home, Woodman, McCutcheon  
Carey re le Perrin  
Brunke qb qb Morse  
Bourne lhb rhb Haywood, Hall  
Linnell rhb lhb Chandler, Horne  
Johnson fb fb Child, Horne, Chandler  
Score, Gardner High 26, Tech 2d, 14.  
Touchdowns, Bourne 2, Linnell, Johnson, Child, Horne. Goals from touchdowns, Linnell 2, Morse 2. Umpire, Harry Robertson. Referee, J. E. Sullivan. Linesman, Bronson. Time, 8 and 10-minute periods.

**C. P. SHEDD SPEAKS**

Thirty-five men from Tech and Clark College who are engaged in industrial service work here in the city attended a supper given by the Y. M. C. A. last Monday night at Putnam and Thurston's. After the supper the men listened to a talk by Mr. Shedd, former secretary of the Y. M. C. A. here at Tech, whose topic was "The Value of Teaching the Immigrant from a Community Standpoint." Following Mr. Shedd's interesting talk Dr. Lewis, active in social service work in the city, and Mr. Moore, educational secretary of the city Y. M. C. A., briefly pointed out some of the difficulties arising in immigrant work.

The Y. M. C. A. intends to hold several of these suppers during the winter in order to bring together these men who, in their spare evenings, teach the foreigner the rudiments of our English language.

**Athletic Dues—Payable week of November 29.**

There was a small fire at the gym recently. The total lack of excitement was due to the fact that the onlookers thought that Hose 1 was simply coming up to be tested by "Davy."

**THREE TECH SHOWS WRITTEN***(Continued from Page 1)*

it is very fortunate that the committee is able to obtain his services this year.

The date of the Show has not been definitely decided as yet, but it will probably be during the week before the spring vacation. Instead of staging the Show in Tuckerman Hall as in the last two years, attempts are being made to secure the Worcester Theater this year, and the date of the Show will depend on whether or not the theater can be obtained.

**MASS MEETING TONIGHT***(Continued from Page 1)*

10.15, and Manager Ward has arranged to have it start promptly in order that students planning to get home for a two or three o'clock dinner may get a noon train out of the city.

Tickets were put on sale at the Book and Supply Room yesterday. These tickets entitle the holders to seats in the Tech reserved section directly back of the Tech players' bench.

**THE RESPECTIVE SEASONS**

**How Tech and Holy Cross Have Fared**

On the twenty-fifth of September, when Tech downed C. A. C. 6-0, Holy Cross opened her season by trimming Bates 7-0. The next week Tech and Vermont played a scoreless tie at Burlington, while Holy Cross and West Point went to a 14-14 score at West Point. Tech had the better of her game and the soldiers the edge on the boys from Mt. St. James.

On October 9, Tech took a rest and Holy Cross went down to defeat before the Y. M. C. A. College, 7-0. On the 16th, while Tech was defeating R. I. State, Holy Cross played a 7-7 tie with the Massachusetts "Aggies." The "Aggies," however, had by far the better of the contest, taking the ball over the Holy Cross line several times only to be called back for penalties. The next week Tech fell before the "Aggies" to the tune of 27-0, while Fordham compelled Holy Cross to eat humble pie by a 10-0 score. On the 30th Holy Cross beat Boston College, 9 to 0 and Tech was swamped by Wesleyan 42 to 6.

On November 6, Holy Cross closed her season, except for the Tech game, by playing Carlisle. The Indians proved too strong and won 23 to 21. On the same day Tech beat Norwich 6-0. The next week Tech was defeated by N. H. State 20 to 0, and last Saturday was downed by Rensselaer 9-0.

**Mr. Eugene Frank Gray**

Home Portraitist

Wishes to announce that having resigned as Vice-President and Portraitist of the Louis Fabian Bachrach Co., he has purchased the studio formerly occupied by them at 1 Chatham Street where he will be pleased to meet his many friends and patrons interested in high class portraiture at fair prices

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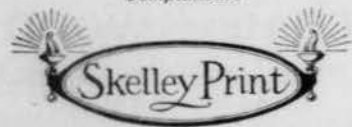
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### RICKER WINS MATCH RACE Defeats Francis in Mile Run

R. W. Ricker is trying to figure out what to have engraved on the cup which Francis' admiring friends have just donated to his collection, for Ricker defeated Francis in a mile race last Tuesday afternoon, thereby proving his right to the trophy.

The two have long been friendly rivals and the point in question arose from the fact that Ricker entered but did not finish in one of the cross-country runs last fall; the result was that a challenge was issued, with a cup as a prize for the winner. Tuesday's race was the outcome. Ricker followed at Francis' heels till the final quarter. Here he let out a burst of speed and passed Francis, leading at the finish by a good twenty-five yards. The unofficial time was 4 min. 42 sec.

### FRESHMAN-SOPHOMORE FOOTBALL

The date for the Freshman-Sophomore football game has been chosen by the two managers as December 4th, the first Saturday after the holidays. Men from both classes are practising regularly in anticipation of the final athletic struggle between the lower classes.

In a recent '19 class meeting, calls were issued for more men to try for places on the team. Those out for practise are showing up well, but they need more competition.

This game will wind up the Tech season in football, and it is hoped that a large crowd will turn out to see it. The Freshmen have won none of the interclass events so far this fall, but they should put up a good fight at this game.

### TECH GRADUATE STIRS COMMENT

The "Engineering Record" for August 21 contained an article by an alumnus, Mr. Roger DeL. French, which has brought forth considerable comment in a recent issue of that journal. The title of the article is "Circular Sewers Versus Egg-Shaped, Catenary and Horseshoe Cross-Sections," and is illustrated by graphs. Mr. French graduated from the Institute in 1905 and received his C. E. degree in 1908. He is lecturer in Municipal Engineering at McGill University.

### FRIENDSHIP COMMITTEE MEETS

Last Wednesday evening the Friendship Committee of the Tech Y. M. C. A. had the pleasure of listening to Dean James Porter of Clark College at their weekly meeting. He spoke on "What Men Live By," his address being largely on Dr. Cabot's book of the same title.

After Dean Porter's address Mr. A. A. Smith '17, gave a lecture illustrated with lantern slides which he and possibly other Tech men are to give later before foreigners of this city. The committee adjourned after turning in their reports for the week.

There will be no meeting of the Friendship Committee this week because of the Thanksgiving recess.

F. V. Hugo '12 is now receiving the congratulations of all his friends as he is the proud father of a nine-pound son, who made his debut into the world the latter part of October. Recently Mr. Hugo helped organize the Colonial Envelope Co. of Worcester in which he is now active.

## Fall Styles Now Ready :::::

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### THE PLAYERS

PLAYER	POSITION	WEIGHT	HEIGHT	AGE
Stone	le	160	5 ft. 9 in.	21
Banan	lt	175	5 ft. 11½ in.	22
Wiedenmann	lg	198	6 ft. 2 in.	22
Sargent	c	160	5 ft. 7½ in.	19
Storrs	rg	172	5 ft. 9 in.	19
Cassavant	rt	200	5 ft. 6 in.	19
Duffy	re	155	5 ft. 8 in.	22
Weitzen	qb	128	5 ft. 3 in.	21
Mossberg	lhb	174	5 ft. 8½ in.	21
Royal	rhb	143	5 ft. 6½ in.	21
Kalagher	fb	165	5 ft. 10 in.	20
AVERAGE		166	5 ft. 8½ in.	20.6
Archibald	rhb	163	5 ft. 10½ in.	20
Dunbar	qb	150	5 ft. 9 in.	22
Sherwood	back	153	5 ft. 7½ in.	22
Canfield	c			
Lemay	line	185	5 ft. 9½ in.	19
Sibley	line	154	5 ft. 9 in.	20
Munz	line	146	5 ft. 8 in.	19

Game at Fitton Field. -10.15 a. m., Nov. 25.

### FIRE PREVENTED

Last Saturday evening about 9.20 Dr. Daniels discovered that the plank landing on the West St. side of the Washburn Shops was on fire. He was fortunately able to quench the blaze before it had made much headway, with a fire extinguisher which he secured in the Salisbury Laboratory. How the fire started is a deep mystery.

### TEAM STANDING

Captain Hirst has stolen a lead of about a hundred points over the other two captains during the last week. It looks now as if Richardson and his team would be the ones to pay for the winner's dinner. Standing, November 17, is as follows:

Name of Captain:	Hirst	Francis	Flint	Richardson
Points for men enrolled in				
Bible Classes	234	145	119	142
Membership	20	56	20	5
Boys' Work	20	14	10	16
Industrial Service				
Work	50	10	82	22
Points for Attendance	29	29	21	20
Total	353	254	252	205

### WIRELESS MEETING

At a meeting of the Wireless Club held last Monday night it was decided to direct more of the club's attention to building up the receiving set than had been done previously. This was done in order to bring that part of the station up to the standard of other similar stations. Previous to the business meeting H. C. Humphrey '17 read a paper on "How to Obtain a Wireless License."

### E. E. NOTES

The Department has recently been visited by Mr. R. P. M. Fleming of the British Westinghouse Co., and by Mr. C. R. Dooley, head of the Educational Department of the Westinghouse Co. of Pittsburgh.

Mr. D. H. Mace '07, has recently taken charge of the work of the Legal Department of the Westinghouse Co. at their Washington, D. C. office.

### ALUMNI NOTE

A letter from the former employer of Philip A. Marsell, a civil engineering graduate of 1914, states that Marsell is with the Riter Conley Co., and lives at 12 West 8th St., Chester, Pa. According to the letter, Marsell has "made good, is married, and happy."

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