

# TECH NEWS



VOL. 7

WORCESTER, MASS., NOVEMBER 30, 1915

NO. 12

## E. E. Meeting

The W. P. I. Branch, A. I. E. E. is fortunate in securing for its meeting of Dec. 17th Mr. Edwin B. Katte, Chief Engineer in charge of design, construction, and operation of the electric traction system of the New York Central Railroad Co. He is also consulting electrical engineer to the Carnegie Foundation for Advancement of Teaching, a fellow in the A. I. E. E. and vice president of A. S. M. E. His subject is "The Electrification of the Grand Central Terminal." It will be interestingly illustrated by lantern slides. As this problem involves work in Civil and Mechanical, as well as in electrical engineering, this meeting should be of interest to all students at the Institute.

## PROGRESS ON GYMNASIUM.

The new gymnasium now appears entirely complete on the outside, and the full beauty and grandeur of the structure can be appreciated. It adds greatly to the appearance of Tech Hill, and is a fitting memorial to the alumni who made its erection possible. Although by no means completed, the interior has taken its final form and is nearly ready to receive the finishes. The running track, or gallery, has been secured in position, and is now being railed, the walls of all of the rooms have been plastered, and partially finished, and work in the basement is being pushed forward rapidly. While there is apparently a lack of windows in the sides, sufficient light is admitted through those in the roof, to amply illuminate the hall.

## A. S. M. E. MEETS.

The Institute was well represented by six members of the Faculty at the joint convention of the Boston and Providence branches of the A. S. M. E. held in Providence a week ago last Thursday. Those who attended from here were Professors Read, French, Nelson, Gallup and Fairfield and Mr. Roys. There were several others present from the city of Worcester.

The program included three trips, entertainment at Brown University and a banquet. The address of N. C. Kingsbury, vice president of the American Telephone and Telegraph Company was accompanied by a practical demonstration of transcontinental telephony. Professor Charles E. Monroe of George Washington University spoke on "Explosives and the Engineer" and Mr. Morris Llewellyn Cooke, director of public works in Philadelphia, gave some "Experiences of an Engineer in Public Office."

## THE TECH CALENDAR

The 1916 Tech Calendar is now in the hands of the printer and will go on sale about December 15. It has many new features and is one of the best ever put out. Watch for it.

## A. S. M. E. Meeting

### Gilbreth Gives Interesting Talk

At the November meeting of the Worcester section of the A. S. M. E. last Tuesday, Mr. F. B. Gilbreth gave a very interesting talk on making cripples useful.

Mr. Gilbreth has been studying motion efficiency for the last fifteen months in the European hospitals and trenches. His lecture, illustrated by many slides, dealt largely with this study and the uses that wounded men can be put to after the war.

### FRATERNITIES ENTERTAIN

Thanksgiving was fittingly celebrated by the various fraternities. Sigma Alpha Epsilon had their annual Thanksgiving reunion at dinner, Sunday, Nov. 21. Many of the old "brothers" were present.

Theta Chi held a banquet last Tuesday evening, at which their alumni were guests. About fifty men were present. A. E. Gorman, '16, was master of ceremonies.

Phi Gamma Delta and Alpha Tau Omega entertained with dancing parties on the evening of November 23.

### PUBLICITY COMMITTEE.

The committee recently appointed by the Tech Council to boom the Holy Cross game did a great deal to get up enthusiasm. By means of posters around the Hill, and men working in each division, quite a number of students were persuaded to stay over. By the courtesy of an upper-classman, it was possible to give each student a small card bearing arguments urging the men to stay for the game. It may be said in passing, that Tech's cheering section was much larger than that of Holy Cross.

### FRESHMAN HATS

Acting as a delegate of the sophomore class, R. Newcomb, '18 G spoke to the freshman class last Tuesday noon in an endeavor to arouse interest in their class hat. The sophomore class has been dissatisfied all the year with the showing of freshman hats on the hill and took this means to express their opinion to the freshman class as a whole. He reminded the freshmen that if they did not take the proper attitude toward this custom now next year they would be unable to induce the class of '20 to wear their hats.

### FACULTY ASSEMBLY.

The various members of the Faculty, with their lady friends, held another very enjoyable Assembly last Tuesday evening, in G. A. R. Hall. Dancing was the feature of the entertainment. The next Assembly is scheduled for January 19.

## Tech Plays Brilliant Ball

Defeated by Phenomenal Forward Passing

HOLY CROSS WINS 26-0

Tech's eleven, playing the best football of its career, was defeated 26-0 by Holy Cross' phenomenal forward passing. Had Tech been able to cope with the Purple's overhead play, the Thanksgiving game would have been a different story as in no other department of the game was the Crimson and Gray eleven outclassed.

The weather was perfect, but the slippery condition of the field spoiled play after play. Tech was injured more than Holy Cross in this respect, as she was on the defensive most of the time and clean tackling was impossible.

The one break of the game went to Holy Cross. Devlin hurled a forward pass from Tech's 40-yard line; Royal intercepted it, hitting the ball with his hands, but Zimmerman recovered before the ball touched the ground and crossed the line for Holy Cross' first touchdown. It was pure luck.

The first score of the game came in the first quarter when Devlin drop-kicked from the 25-yard line.

In the second period Holy Cross scored twice, first on a fluke and then on two forward passes which netted over sixty yards. During this period Tech forced the Purple back to their own goal line, but was unable to score.

In the third period Holy Cross scored its only touchdown on straight rushing. On a fake formation Hurley shot through center and managed to just cross the line. The last score of the game came in the fourth quarter on a drop-kick.

For Holy Cross Devlin stood out prominently as the man of men. For Worcester Wiedenmann, Stone, Duffy and Mossberg shone.

Wiedenmann and Stone put brilliant endings on their football careers. Time and again "Windy" broke through the line to throw the Purple backs for losses; while Stone's punting, end running and defensive work played a large part in keeping Tech in the fight.

Of Duffy the Purple was plainly afraid. "Watch Duffy" was their watchword; and two men were usually sent to attempt to box off Tech's clever end as he went down under Stone's punts. More than once, however, the Purple receiver was downed in his tracks.

Mossberg gained consistently through the purple line and was equally successful on the defensive.

HOLY CROSS—26 0—WORCESTER TECH

### Lineup:

|              |               |
|--------------|---------------|
| McCarthy le  | re Duffy      |
| McCulloch lt | rt Cassavant  |
| Lynch lg     | rg Storrs     |
| Anderson c   | c Canfield    |
| Cogan rg     | rg Wiedenmann |
| Zimmerman rt | lt Banan      |

|              |             |
|--------------|-------------|
| Donnelian re | le Stone    |
| Devlin qb    | qb Weitzen  |
| Foley lb     | rhb Royal   |
| Walsh rbb    | lb Mossberg |
| Hurley fb    | fb Kalagher |

|                  |   |    |   |      |
|------------------|---|----|---|------|
| Score by periods | 1 | 2  | 3 | 4    |
| Holy Cross       | 3 | 14 | 6 | 3—26 |

Touchdowns, Zimmerman, Devlin, Hurley. Goals from field, Devlin 2. Goals from touchdowns, Devlin, Brawley. Goal missed, Brawley. Referee, Daniel J. Kelley, Springfield College. Umpire, Ralph E. Donnelly, Georgetown. Head linesman, William H. Butler, W. H. S. Time, 15-minute periods. Attendance, 4500.

Substitutions: Holy Cross, Twitchell for Walsh, Brawley for McCarthy, Brawley for McCulloch, Povah for Cogan, Mitchell for Twitchell. Twitchell for Devlin, O'Connor for Lynch, Devlin for Twitchell, Lynch for O'Connor, Todarelli for Anderson, Kelley for Hurley, Reilly for Mitchell, Cash for Devlin, Duffigan for Donnellan, Roesch for Brawley, O'Sullivan for Lynch, Sullivan for Povah.

Tech, Lemay for Storrs. Storrs for Lemay, Morse for Weitzen, Sargent for Canfield, Lemay for Storrs, Canfield for Sargent.

### ECHOES FROM THE GAME.

Tech's watch-word was, "Forward!" Holy Cross's was, "Forward—pass!" What if we had not had the consolation of a turkey dinner?

Tech's line was some surprise! Not a penalty for Tech. How it has changed!

Tech saw Holy Cross' one-yard line. Holy Cross played a "pass"-able game.

### SOPHOMORE DUES

Next week the sophomore class will start the collection of the class dues. Although at present the class treasury is in good condition this action seemed advisable in order to lessen the heavy assessments with which the seniors are taxed.

### CALENDAR

TONIGHT—5 p. m. Meeting of NEWS Staff. TECH NEWS Building.

WEDNESDAY—6.45 p. m. Y. M. C. A. Friendship Committee meets. Y. M. C. A. Room. Everyone invited.

FRIDAY—8. p. m. A. S. M. E. Meeting Mechanic Lecture Room. Hartley Bartlett, Patent Lawyer will speak.

DECEMBER 17—A. I. E. E. Meeting. "The Electrification of the Grand Central Terminal."

# 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 30, 1915.

This issue has been in charge of News Editor N. C. Firth.

## BOOST TECH

### Editorials

Almost time to start arrangements for that Freshman Banquet, 1919.

### GET ACQUAINTED.

The absence of regular meetings of the entire student body and of dormitories here at Tech makes it very easy for a man to go through his four years without even knowing all of his classmates. In doing this, he, of course, misses the best part of his school life. The freshman is apt to find at the end of this first year that he knows few outside of his division. Now is a good time to begin to find who every member of your class is. Come, Freshmen and others, get acquainted.

### FOLLOW THE LEADER

Are you tempted to look at the 26-0 score, and say, "I told you so; Tech spirit is no good."? Don't do it!—use a little faith, and follow the leader. By this we mean, that there are now at Tech, as

there have always been, a few men with sufficiently good faith to realize what Tech can become. Their efforts to attain this goal succeed only when the men of less imagination will play fair, and follow the leader. Not every one can see splendid visions:—we know that. But, nevertheless, the visions are always there, whether we see them or not. What sympathy have we for those who look downward, and say that there is nothing above them?

Here is an unfailing law:—He who works with his fellowmen must be either a leader, a follower, or a hindrance. The latter is the man who cannot lead, yet will not follow. Don't do it! Lead or follow, whichever is your province, whether it is in football or any other Tech interest. Think of the school's welfare, and your own will never suffer. Play fair:—Follow the Leader!

## TRAINING RULES

Another gridiron season is past, and there was a marked improvement over the play of immediately preceding years. The team play was much better, individual skill was more marked, and the results of the season in black and white are much more favorable than for any season within the memory of the present college generation.

But in one respect—and it is an important one, too—there was little advance this fall. There is no evidence that the training rules which are familiar to every athlete were observed with any more rigor than usual. There is evidence, on the other hand, that several of the players smoked, that they put scant thought on their diet, and that they received neither regular nor sufficient sleep.

A few do not merit this criticism; but the result of the lack of training on the general condition of the team has been marked in many games. Seldom has the team played brilliant football for more than one quarter—not always the first—of any game. Periods of slashing football here and there during the season have proved the capabilities of the team, but lack of condition has prevented the continuous exhibition of this form, with the consequent small number of scores made by Tech.

Tech has not reached that stage of loyalty where every football man will devote every spare bit of energy to football, and it is doubtful if any college ever truly reaches it. To solve the training problem, a permanent coach or trainer must be put in charge whose authority to discipline must be unquestionable. No coach taking charge for a single season can be expected to impair his team by the use of disciplinary measures which he knows to be for the ultimate good of the team.

Tech plays football as it did twenty-five years ago. While other colleges have advanced, we have been stationary; but now a field and a gymnasium is at our disposal, and it is time to break away from the beaten path. We need a physical director and a coach who has the backbone to sacrifice the team for two or three or more years, if necessary, to build up a system which will put Tech football on a par with this branch of sport at other institutions, even though their teams are not composed of the busy engineers who put more time than they can afford to into athletics.

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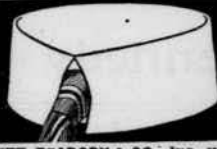
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### INDUSTRIAL SERVICE WORK

More Workers Needed

One of the most important lines of work which are being carried out by the Tech Y. M. C. A. this fall is the Industrial Service. Men are being enrolled to devote a few hours of their time to the teaching of English to the foreigners of Worcester, who cannot speak our language, and who are thereby seriously handicapped in their attempts to understand our customs.

On Monday evening, Nov. 8, E. E. Bohner, the head of the Industrial Service Department of the Providence Y. M. C. A., spoke on "Industrial Service" to a group of twenty men from Tech and Clark. He described the need for this work, and the desire of the foreigners for a knowledge of our language, and also explained the principles of "The Roberts Lessons" which will be used by our men. Last evening after a dinner at Putnam and Thurston's, the teachers listened to two very instructive addresses on this subject, by Mr. Clarence P. Shedd, State Student Secretary, and Dr. Lewis, of the University of Paris. The method of teaching was illustrated by actual instruction of several foreigners who were present. There are to be at least two more of these "Normal Groups," before the Christmas Recess and all will be held at six o'clock at Putnam and Thurston's. On Nov. 29, George F. Quimby, Industrial Service Secretary at Fall River, will speak. The speaker for Dec. 20, and one for a possible intermediate date, have not yet been secured. At these meetings the various phases of industrial work, which have been successful in different localities, will be discussed, and the actual training of men will be demonstrated. It is planned to instruct these groups for a period of six weeks now, and then take it up for six weeks more, after the mid-year recess, thereby avoiding all conflicts with Christmas vacation, and the preparation for mid-year exams.

Eight different nationalities will be instructed by our men: Syrians, Greeks, Hebrews, Swedes, Armenians, Finns, Italians and Lithuanians. While some groups will contain different nationalities, "The Roberts Lessons" will be used in all cases. English will be taught in the majority of classes and Civics and Arithmetic in the more advanced groups. A little later illustrated lectures on travel will be given before the different groups.

There is a very large field for this work in Worcester, as there are over 50,000 foreigners here, nearly half of whom cannot speak English. These men are extremely eager to learn, and highly respect the man who gives a small amount of his time to aid them. Besides doing these immigrants a priceless service, the men who enter this work will be benefited in several ways. They will learn to control a group of men older than themselves, which will be of great use in the near future when they are placed over a gang of similar men, and then will have had the experience and can succeed where their classmates would fail. They will learn to see and think from the view-point of these men and therefore will be able to sympathize with them, and in return will receive better service from the gang, and accomplish more. Indeed, the man who can learn to stand before a group of twenty-five of these men, and hold their attention, and gain their respect, will receive valuable practice for any phase of life.

Any man who can spare two hours a

week should benefit himself by giving his services to this worthy cause. Secretary Pierré or Maxton H. Flint '17 would gladly explain the work to anyone who would be willing to take it up. Thirty men have already enrolled and twenty more are needed.

### COMMUNICATION

To the Editor:—

Many colleges are now using a point system; their number is constantly increasing. Its adoption at Tech has been discussed, both this year and last year. Since any set of rules of this kind vitally affects every student it is the duty of every Tech man to acquaint himself with this system.

The object of the Point System is to bring more men unto school activities by preventing a few men from doing all the work. This is accomplished by allowing a man to "carry" a certain number of points and then rating each office at a definite number of points. The details of course vary greatly in the different technical schools and colleges. The number of points a man may carry varies from four to fifty. Almost always the highest offices,—president senior class, etc.—are rated at the highest number of points that one man may carry. Some colleges grade only the more important offices; others, all even to un-important class committees.

Some peculiar variation is introduced almost always when the system is adopted. One college takes off a certain number of points for low marks; another counts points if a man supporting himself by outside work. Athletics are almost never brought out into the point system.

The fundamental idea is to get more men into school activities. This prevents a few men from taking on so much organization work that both their school work and the outside work suffer. It develops school spirit because it brings out more men to work for the school. It prevents any of the friction and ill feeling that results when one man holds three or four important offices.

In most colleges this idea has originated in class meetings, student self-government board meetings, or school senate meetings. Here it would most properly start with the Tech Council. — *Undergrad.*

### FRESHMAN BANQUET

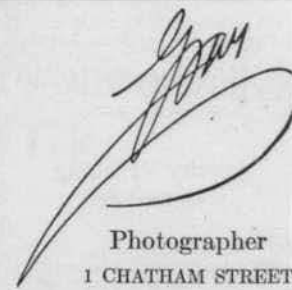
No definite plans have been made as yet for the Freshman banquet. As soon as the Freshman-Sophomore football game, scheduled for the Saturday after the Thanksgiving holidays, has been played, the matter will be brought before the class. The Freshman hope to have, at this time, not only the usual banquet, but a celebration of their victory.

Prof. Z. W. Coombs is to deliver his illustrated lecture on "Historic and Literary Concord" before the New England Society of New York. Tuesday evening, Dec. 7. The lecture will be given in the Waldorf Astoria.

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**TUESDAY'S MASS-MEETING**

The mass-meeting held last Tuesday in preparation for the Thursday's game was quite as spirited as the previous one held on the morning before the New Hampshire game, although the difference in time of day and occasion resulted in a smaller turn-out.

C. A. Stone started things off by calling for the Alma-Mater song and received a ready reply to the request. Alfred E. Rankin, '04, a former member of a Tech football varsity then spoke and assured the team and undergraduate body that the Alumni would be with them in spirit in other cities as well as on Fitton Field Thursday. Professor Butterfield told of his W. P. I. "intention cards" which he sent to those Alumni who lived near enough to attend the Troy game, and expressed his desire for a good attendance and a victory for Tech at Holy Cross. Capt. Banan, Stone, and Manager Ward each gave good advice and requested that there be a large crowd in the Tech cheering section. Dr. Conant spoke his good word while Dr. Long requested that all of those who had not yet paid their athletic dues should look up the necessary amount during the week-end at home in order to be prepared for the division collector. G. O. Pierell gave a few of his own college team's experiences in cases similar to that of our own and expressed the sentiment of the public of Worcester as well. Following these short talks, cheer-leader Farnsworth led the school in a number of songs and cheers and tried out the new Tech "locomotive" yell.

**NOTE AND COMMENT**

President Hollis will be a speaker at the international Road Congress, to be held in Worcester, December 14-17. His subject will be:—"The Necessity for Scientifically Trained Engineers in Highway Construction."

At a recent meeting of the Worcester branch of the National Security League, President Ira N. Hollis and George I. Rockwood, of the Alumni Association, were elected delegates to the national convention of the League in Chicago.

An enthusiastic letter has been received from Walter D. Stearns, who was formerly an Instructor in the E. E. Dep't. Mr. Stearns is now with the Westinghouse Company at Pittsburgh, and is much pleased with his position.

J. A. Rourke, '87, has been appointed by Mayor Curley of Boston to the position of Chief Engineer of the high pressure fire service. The appointment brings an increase of \$1000 in salary over his former position of assistant engineer.

The last number of the "Physical Review" contains an article by Professor Ewell upon "Electrostatic Measurement of Electrode Potentials." The paper describes an entirely new method for measuring the absolute electrical potential of a metal dipping in a liquid and applications of this method to several metals and solutions. The work has been in progress several years and three preliminary papers in the "Physical Review" have preceded this final complete paper.

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