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* All students are members.
As the football season approaches its close, we must remind the students that it is time to discuss the prospects for a play. If it is the desire of the students that a burlesque be given, a committee should be appointed at once.

This committee could then meet the athletic committee of the Faculty and learn from them the position held by them in this matter. From a knowledge of the consultation of last year, we feel quite confident that the athletic committee will look with favor upon the production of a burlesque, provided work upon it is begun immediately.

This committee of students should be appointed before the Thanksgiving recess, and it will then be ready to take up its duties on the re-opening of college. The object of beginning work thus early, is to enable the committee to produce the play at the beginning of the Easter recess. Should the production be delayed till after that time, the work of the baseball and track men would be seriously injured.

In our Commencement number the following editorial appeared:

"We regret that we are unable to publish a more extended account of the Alumni Reunion, but as we were entirely dependent upon the Secretary of the Association for our report we could not do the Reunion justice in our columns. It was our intention to publish a full account of the affair, knowing, as we do, that it would be of interest to every graduate, and we had confidently expected the Association would send the W P I a complimentary ticket, as was done the dailies of the city. Receiving none, however, the Editor applied to the Secretary, drawing his attention to the effect and stating that it was desired to report the affair somewhat fully. In reply, the Secretary said that he would furnish an account of the business meeting, and if the W P I wished anything further it could depend upon the accounts in the daily papers.

"The whole affair in a nutshell amounts to this: the alumni complain that there is not enough of interest to them in the issues of this paper, and yet the Alumni Association denies the paper that represents their Alma Mater admission to a meeting which is of interest to every alumnus. Be consistent,
gentlemen. If you want us to furnish the news, at least give us the opportunity."

We have been assured by the Secretary of the Alumni Association that it has never been the custom to send complimentary dinner tickets to the press, and that none were sent this year. The Secretary is equally positive that he did not deny the representative of this paper admission to the meeting, nor tell him that if the WPI wanted anything further than a memorandum of the business meeting, it could depend upon the daily papers. On the other hand, the WPI man is equally positive that the above version is as he understood it. There seems to have been an unfortunate misunderstanding about the matter between the WPI man and the Secretary of the Association for which the present board is in no way responsible. Inasmuch, however, as the WPI now appears to have been in error in some of the facts, independent of the conversation out of which the misunderstanding grew, it seems but justice to the Alumni Association and the Secretary to publish this acknowledgment, and to say that we accept in good faith the assurances of the Secretary of the good will and kindly interest in the paper both of the association and of himself.

At a recent meeting of the Athletic Association a method of electing officers was used which should be adopted by all associations connected with the Institute. We refer to the plan of putting men in nomination and then posting a list of these nominations; the election taking place one week after the nominations are posted.

By this means we shall secure a thorough discussion of a candidate's qualifications, and the tendency will be to place the best men in office. At the present time the students do not exercise sufficient thought in these matters. Also, we believe that this would ensure a larger attendance at all our athletic associations' meetings.

We publish in this issue a letter from a Freshman advocating the establishment of an institution resembling the Foxcroft Club of Harvard. The idea seems to be a good one and would be a step in the right direction. The more the men are brought together outside the doors of the Institute the sooner will there be a proper college feeling and patriotism. We have always considered the dearth of this feeling as due to lack of dormitories; the men see too little of one another and are divided by class and other jealousies. It is to be hoped that some bold spirit will move in this matter and we may hear more of it anon.

We would remind the captains of class elevens that the Varsity men are creatures to be looked at and not handled. In the last game the eleven was handicapped by the loss of one of its tackles, who was injured while playing on a class team. If the class teams wish to use Varsity men, they should ask the consent of the Varsity captain, whose privilege it is to refuse. The erring class is properly repentant, and we trust will not offend again.

The attendance at football games so far this season has been anything but satisfactory. The eleven is playing well, and the students should show their appreciation by attending the two games which close the season.

THE NEW BUILDINGS.

Their Arrangement Described.

The foundations for the two new buildings, which are being built from the one hundred thousand dollars appropriated by the State Legislature last March, are now complete, and work on the buildings has commenced in earnest. The engineering laboratory, the larger of the two, fronts on West street, and is situated north of Boynton Hall, and directly west of the older portion of the shop.
The power-house is between the laboratory and the shop, there being only a driveway between the new buildings. The only connection between the buildings is under the driveway, which is built upon brick arches, supported by iron beams.

The plans for both structures were made by the firm of Earle and Fisher, and consist of a laboratory, which is to be 150 x 50 feet, four stories high, and a power-house which is to be 56 feet square, one story high.

The laboratory is of granite to the second floor and the remainder brick, with brownstone trimmings. The power-house will be wholly of brick, with brownstone trimmings, and will, in general, be of the same style as the larger building.

The main entrance to the engineering building is on West street, and two other entrances open from the driveway on the east side of the building. The power-house will have its main entrance from the driveway, and will also have an entrance on the north and one on the east side.

The power-house is designed to contain engines and boilers for supplying the shops with power, and also to contain apparatus for conducting experiments with steam, boilers, and engines.

The chimney for the plant has already been completed, and in appearance is novel and attractive. It is 7 ft. 7 in., at the base, and is 94 feet high. The power will be derived from upright boilers of eighty horse-power, which will be situated in the northwest corner of the building. But one boiler will be used at first, the second and third being added when necessary.

The engine used will be a triple expansion, and it is safe to say it is the first of its kind ever manufactured. It will be composed of three different commercial engines, the cylinders of which correspond to the high, medium, and low pressure cylinders of an ordinary triple expansion. These will be so arranged as to run either collectively, as the triple expansion, or individually. They will be capable of furnishing 150 horse-power.

About one-half the building will be used as an engine-room, while a room in the northeast corner is set apart for a gas plant, which can be put in at any time.

The coal pit will be under the arched driveway. It will be convenient to the boilers, and will have the additional advantage of being easily filled, the coal being dumped through scuttles in the concrete. The shafting between the powerhouse and shop will run under a brick arch similar to the one on the opposite side of the building.

The roof will be supplied with three monitors: one over the engine-room, one over the boilers, and one over the gas-room. These will furnish both light and ventilation. Further details, such as the make of engines, boilers, and other apparatus, have not been decided upon. It is probable that the old chimney will be taken down, and the boilers and engines removed, when the new building is finished. At present it has not been determined to what use the old engine and boiler-room will be put.

The engineering laboratory will be devoted mostly to the mechanical department, although there will be parts of the building which are to be used by all departments. The first floor of this building will contain but one room besides a spacious hallway. To this room the greater part of the experimental and testing machines, now used on the ground floor of the Salisbury Laboratory, will probably be removed. The second floor will contain a large lecture-room, two recitation-rooms, private room, study, cloakroom, and store-room. The third, or top floor will be used exclusively for drawing and will be divided into rooms for general drawing, free-hand drawing, machine design, model, blue-print and toilet rooms. The basement, the entrance to which is on West street, will be used for hydraulics and for general purposes. When completed, this building will afford several departments a greater field for practical work, and while the buildings now used are not overcrowded, these additions will accommodate the large increase of students which the Institute is sure to gain in the next few years.

In external appearance the buildings will be very attractive, and the front of the laboratory will be ornamented by a handsome brownstone tablet placed over the main entrance, and bearing the name of the building,

"ENGINEERING LABORATORY."

Another tablet, to the right of the entrance, will bear the inscription in sunk letters:

"Erected in 1894 with funds appropriated by the Commonwealth of Massachusetts."

---

**AN OLD FRIEND.**

Mr. Combs Enjoying Himself.

In a very interesting letter to one of the members of the Faculty, Mr. Combs tells some of his experiences since he left Worcester for Germany.

He had a delightful passage across the Atlantic; the weather was fine and, as none of his party were sea-sick, they enjoyed their voyage very much. On landing at Antwerp they found the city so interesting that three days were spent there. Among the striking features of the city
are the numerous art buildings. These, however, as everything else in the city, are very dirty indeed. They then went to Brussels, where they spent one-half a day, after which another half-day was spent viewing the city of Cologne. A few more days were spent in travel, and then he went directly to Hanover.

He is living in Hanover, at No. 3 Wiessenstrasse, in a family of nine, not including his own party. From his apartments can be heard the trumpets and drums at the arsenal, about one-half mile away. Nearly all the men of this garrison are from 18 to 20 years of age; they are compelled by the government to serve in the army for a period of from one to three years, and relief from this compulsory duty is almost impossible to obtain.

Hanover is a very charming city, with exceedingly clean streets, old castles and museums. One of the characteristics of the town is its large and elegant buildings. The Technical School of the city is very famous indeed, and has students from all corners of the globe. Mr. Combs is devoting all his time to the study of the German language as spoken there. He is learning to read and speak the language rapidly, as there is no difficulty in obtaining practice. In the course of two months he hopes to have mastered the language to such an extent that he will be able to attend the lectures at the University in Berlin.

In closing his letter, Mr. Combs expresses a desire to be here at the opening of the term, and says it seems quite odd to him not to have a regular routine for each day as he had when at the Tech. He wished to be remembered to all his friends and to all who enquired for him.

A LETTER FROM JAPAN.

The following is an extract from a letter lately received from Gumpel Kuwada, '93. As all are interested in the progress of the Japan-China war, we publish it that our readers may see the way the Japanese look at the probable result.

Mr. Kuwada is in a position where he can obtain much information concerning events, and his statements are consequently quite valuable. He is now located at the Japanese Imperial Arsenal, at Osaka, Japan. The works are large ones, extending for a quarter of a mile between two rivers, and furnishing employment to two thousand men. They are the second largest iron-works in the country. Mr. Kuwada is third in rank and has under his charge all the steam plants connected with the establishment. The letter from which the following extract is taken was dated September 25th.

"Now about the war. Because of my present occupation I escaped enlistment, yet something may take me to China after all. The arsenals are working fourteen hours and Sundays. The present establishment being not large enough, the new buildings are built, which make me more than busy. Making of sheds into shops, and fitting out old machinery besides the regular work is hustling. From the above you may get the idea that the Japanese government expects this war to last for a while yet; at least long enough to use the new buildings now being engineered for. Your papers are remarkably accurate on the principal news. We are licking the 'Chinese' all around. Soon we'll take their treasury city.

"The last naval battle was a terror. We lost forty men, eleven officers; not a ship. The injured men only one hundred and sixty. Their fleet of fourteen warships and six torpedo boats was scattered to the four winds; four battleships sunk, three more hit in the powder magazine were totally burned up.

"The country is in the finest state for war. Poor people and children even are making contributions to the voluntary war fund. No tax is laid; seventy millions of bonds have been subscribed when only thirty millions were called for. At the news of every victory, all the houses put out the national flags. Away in the country, mud cottages have flags costing some thirty cents, which is equal to about a week's pay among the farm hands. The business suffers not the least. The rice is past the flower and promises twelve per cent. above the average. Some stocks have gone up by this war. And the newspapers are doing the greatest good by gently soothing any symptoms of excitable feelings. The Emperor is in camp with his cabinet at headquarters on the coast, which is a great thing, he being heretofore considered almost divine, is now in common experience with his countrymen. There are seven military stations, but so far only two have gone out, and we have lost no ships and our wounded amount to less than a thousand on sea and land. The whole nation is for war, and we'll get there yet!

"Now how about China? Her minister of war has poisoned the Corean minister so as to infinitely shut up his mouth on his Corean blunders. That empire is immense, but too much divided into clans for fine work. All the government officials have been docked 25 per cent. off their salaries. Her war bonds are all bought by the foreigners. We are spending three hundred thousand yens per day on this war, but not one-half goes out of the country. So I cannot see how we can be impoverished in 'a short time.'"
TECH vs. TRINITY.

W. P. I. Beaten by a Small Score.

The hardest and most exciting game that Tech has played this year was that at Hartford, October 27th. That hard luck was the only thing which prevented Worcester from scoring, was readily seen by the on-lookers. Trinity was much heavier. Her interference was excellent, while Worcester's end-interference was easily broken by the heavy ends. Only a few times could Allen or Mayo skirt the ends, and most of the gains were made through the line.

Allen opened the game by kicking well down the field. Langford was downed in his tracks by Harris.

The teams lined up as follows:

<table>
<thead>
<tr>
<th>TECH</th>
<th>TRINITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cunningham, 1. end r.</td>
<td>(Capt.) Stranbridge</td>
</tr>
<tr>
<td>Booth, 1. tackle r.</td>
<td>Penrose</td>
</tr>
<tr>
<td>Brigham, 1. guard r.</td>
<td>Merwin</td>
</tr>
<tr>
<td>Riley, centre</td>
<td>Lord</td>
</tr>
<tr>
<td>Davis, r. guard l.</td>
<td>Langford</td>
</tr>
<tr>
<td>Leland, r. tackle l.</td>
<td>Buell</td>
</tr>
<tr>
<td>Harris, r. end l.</td>
<td>McCook</td>
</tr>
<tr>
<td>Warren (Capt.), quarter</td>
<td>Coggeshall</td>
</tr>
<tr>
<td>Mayo, r. half l.</td>
<td>Beecroft</td>
</tr>
<tr>
<td>Allen, l. half r.</td>
<td>C. Coggeshall</td>
</tr>
<tr>
<td>Morse, full</td>
<td>W. Langford</td>
</tr>
</tbody>
</table>

Tech immediately held, and Langford punted. Morse misjudged the kick, and Trinity got the ball on Worcester's twenty-yard line. Tech again held, for four downs, but immediately lost the ball. Again they held and made some good gains, pushing the ball well toward the Trinity goal-posts. But Hartford held well, and pushed the ball rapidly back to the 35-yard line, whence Beecroft carried it over. The play went through our right tackle and half. The goal was an easy one, but Langford failed in his try.

Trinity, 4; Tech, 0.

Allen kicked off poorly. Trinity made a few gains and then punted. Worcester rushed the ball forward and had but ten yards to go when the linesman called time.

Mayo took Trinity's kick-off and made a small gain. The tackles were worked hard, and the ball was on the twenty-five yard line when Harris fumbled and lost seven yards. Worcester then lost the ball on downs. Langford made some excellent runs, but Worcester finally braced and got the ball. Here occurred the finest playing of the game. Neither team could advance the ball. For six consecutive times the ball changed hands, and all happened within the range of ten yards. Now Tech seemed to strengthen, and Booth, Leland, Mayo, and Allen made fine gains through Trinity's line. Allen made a twenty-yard run around the end. Again the centre was forced back. The ball was on the five-yard line. A touch-down seemed inevitable, but time was called.

The defeat is no discredit to the team when the excellence of the opposing team and the hard luck are taken into consideration. The centre men must learn to play lower on offence; their defence was perfect.

Several of the players stayed over night in Hartford with their friends. The remainder of the team returned that evening. The strength of Trinity is shown by the fact that one of last year's guards is now playing tackle. Booth played against this man and showed the strongest game of any man in the line. The left side of Tech's line was impregnable. The right side is not quite so steady, it plays more in streaks.

W. P. I. vs. R. P. I.

The Trip to Troy.

A little past midnight, Saturday morning, the Tech team boarded a west-bound train on their way to Troy. Everything went smoothly. The two hours' stop at Springfield was partly occupied in buying out the night-lunch carts in the vicinity of the station. From Springfield on, those who could got little snatches of sleep, but it was a pretty tired crowd that got off at Albany that morning. A six-mile ride on an electric car brought the team to their hotel. After breakfast,—or rather, supper,—all retired to their rooms to get a much needed rest before the game. One o'clock saw all seated at the dinner table, and at two o'clock the team was dressing in the Rensselaer gymnasium. Both the Tech teams took the local train for the battle-line. The Troy team seemed considerably the heavier, both in the centre and back of the line. Worcester took the ball on the kick-off, and after the ball was downed the teams lined up as follows:

<table>
<thead>
<tr>
<th>WORCESTER</th>
<th>RENSSALEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cunningham, r. end l.</td>
<td>Hooker</td>
</tr>
<tr>
<td>Leland, r. tackle l.</td>
<td>Ranny</td>
</tr>
<tr>
<td>Davis, r. guard l.</td>
<td>Diurbrowe</td>
</tr>
<tr>
<td>Riley, centre</td>
<td>Atchison</td>
</tr>
<tr>
<td>Brigham, l. guard r.</td>
<td>Brohm</td>
</tr>
<tr>
<td>Durand, l. tackle r.</td>
<td>Hine</td>
</tr>
<tr>
<td>Harris, r. end l.</td>
<td>Ward</td>
</tr>
<tr>
<td>Warren (Capt.), quarter</td>
<td>Jason</td>
</tr>
<tr>
<td>Mayo, r. half back r.</td>
<td>(Capt.) Wilcox</td>
</tr>
<tr>
<td>Hitchcock, l. half back r.</td>
<td>Hannaran</td>
</tr>
<tr>
<td>Morse, full</td>
<td>McElroy</td>
</tr>
</tbody>
</table>


Troy was immediately held and forced to punt. Hitchcock fumbled, but Harris fell on the ball. Mayo made a good run around the end. The tackles were being worked, when
Leland dropped the ball. Troy sent her men for four downs without the required gain. Hitchcock again dropped the ball, and Hannon made twenty yards. Troy was again held, and the full-back, attempting to punt, fumbled the ball. Harris made fifteen yards around the left end. After a few short gains Worcester was obliged to give up the ball. R. P. I. worked the criss-cross with good results, but were soon held by W. P. I., who in turn were unable to gain.

Wilcox had made thirty yards and almost a touch-down, when Morse stopped him. Worcester now held Troy on the ten-yard line. The play was fast and furious, but Troy could not push the ball forward. Nor could Worcester regain any ground, and Mayo punted well up the field. Janes fumbled the ball, and Morse fell on it. Here Hitchcock commenced his excellent work. His twenty-five yards through the tackle was followed by Harris' ten-yard run around the end, and Morse's ten yards through the centre. But Worcester was forced to punt, and again Troy fumbled and Briggs fell on the ball. It looked now like a touch-down for Worcester, but time was called before much ground was made. Time, 25 minutes.

Worcester, 0; Rensselaer, 0.

Disbrowe kicked well into Worcester territory and Mayo was downed with little gain. Worcester seemed to suddenly wake up. Durand made five yards, Harris ten, Hitchcock ten, Harris fifteen, Hitchcock three, Brigham four, Durand four, Leland four. Now Troy held. Mayo went back as if to punt, and Morse ploughed through for eight yards. But Troy held again, and Hannon took the ball back ten yards. Ten yards more were added for off-side play. Then the criss-cross netted Troy twenty-five yards. On Troy's punt Disbrowe interfered with the catch, giving Worcester the ball and ten yards.

The backs now ran through the centre for large gains, and Harris aroused the grandstand by his phenomenal gains around the left end. The interference was the best the team has yet shown. Hitchcock then carried the ball to within six inches of the line, and as R. P. I. massed in the centre, Harris was sent around their left end placing the ball between the goal posts, amid cheers from the manager and the one substitute, who gave the Tech yells as if backed by all the students of the Institute. Mayo failed in the kick.

Worcester, 4; Rensselaer, 0.

Disbrowe again kicked well into Worcester territory. Mayo was downed almost immediately. Troy now surprised Worcester and held them on the twenty-yard line. They fumbled, however, and it was Brigham's ball. Mayo had to punt. Troy tried the long pass without success. Worcester held hard and got the ball. The backs again began to push forward, and it looked like another touch-down, but time was called. Time, 20 minutes.

The similarity between this game and that at Trinity is marked. Worcester was many times able to hold her opponent for four downs, while the tremendous force with which Troy's centre was struck excited favorable comment from all. Harris played well. His running behind interference, was good. He was steadier than usual. Hitchcock surprised everyone and, with the exception of his two fumbles, played a remarkable game. His tackling was especially fine. The centre especially has improved. Low playing stopped the heavy Troy backs without the slightest gain. Tech's defence is improving very fast.

The Troy's criss-cross was well played, but their long pass was far from perfect. Their individual play was excellent, but their lack of team work was quite apparent.

The Worcester players were startled on their first good play at hearing a loud cheer given for them. It seems that the Laureates are great rivals of Rensselaer, and the week before had defeated them 6-0. Among the members of the club was Charles Ferry, W. P. I. '88. He assembled his club-mates and led in the cheering for Worcester. It was a great encouragement to the visiting team, and many thanks are due Mr. Ferry and his friends.

The Rensselaer manager expressed the hope that a league would be formed next year between the Technical Institutions in the East. It seems to the W P I that this is an excellent plan, as—possibly with the exception of Boston Tech—all the Institutions are evenly matched in athletics and in numbers.

The Tech team plays Tufts at the Oval today, and an excellent game is expected, as scores show that the teams are evenly matched. Everyone should be present.

**PROSPECTS OF A TECH-HIGH SCHOOL GAME.**

Ever since the High School football team defeated the Academy eleven, the air has been filled with rumors concerning a game between the W. P. I. team and the High School eleven. Much appeared in the daily papers of the city, but without foundation, inasmuch as the managers of the teams had had no conversation or correspondence whatever about a game up to Nov. 3.

Since then, however, arrangements for a game
have been discussed by Manager Temple and Manager Albertson, and, in all probability, the teams will meet in the near future to decide the championship of Worcester.

W. P. I. has nothing to gain by such a game, as all her dates are filled, but is willing to play to give the High School satisfaction, and few Tech men have any doubt of the outcome.

**CLASS ELEVENS.**

As far as can be observed from the men out practicing, the make-up of the different class-teams will be something as follows:

- Class of '95—l. e., King, Capt.; l. t., Davis; l. g., Davis; c., Ford; r. g., Harrington; r. t., Leiland; r. e., Martin; q., Warren; l. h. b., Stone; r. h. b., Field; f. b., Killam.
- Class of '96—l. e., Ware; l. t., Darling; l. g., Crawshaw; c., Riley; r. g., Fisher; r. t., Sibley; r. e., Vaughn; q., Harris, Capt.; l. h. b., Mayo; r. h. b., Cunningham; f. b., Zaeder.
- Class of '97—l. e., Davis; l. t., Smith; l. g., Cundall; c., Daniels; r. g., Lamson; r. t., Durand; r. e., Edwards; q., Throop; l. h. b., Morse; r. h. b., Lundgren; f. b., Nelson.
- Class of '98—l. e., Brown; l. t., Booth; l. g., Perkins; c., Craig; r. g., Harrington; r. t., Hitchcock; r. e., Hawley; q., Synder; l. h. b., Smith; r. h. b., Dimick, Capt.; f. b., Ferry.

The preliminary games will be played on the campus, and if no game is arranged with the High School the final will probably be played at the Oval. It is expected that there will be great interest shown by the students in the final game of the championship series.

The prevailing popular opinion seems to be that the fight lies between '95 and '96. The latter has a team of fine individuals, while '95 will rely upon her superior team-work and her last year's experience. The rivalry between '97 and '98 is intense, but the latter class will not be the tail-enders if pluck and perseverance and a supply of good men mean anything. Some even hazard the opinion the Freshmen will make a good bid for the championship. Their practice with local teams is surely giving them an immense advantage over the other classes. It might be interesting to note that of the first eleven and substitutes five are '95 men, five are from '96, while '97 and '98 each supply two.

**THE NEW FOOTBALL RULES.**

**How They Affect Our Team.**

Towards the close of the football season of 1893 the revision of the football rules was a much agitated question, both by the college journals and the press in general. The season of 1894 opened with the rules changed enough to satisfy the most urgent appeal for reform, but whether these changes will produce the desired effect can only be determined by careful study of the game as it is played this fall. It is undoubtedly true that there are many weak points in the new code of rules, and the changing or reinterpreting of one or two of the rules will be positively necessary before the season is very far advanced. But, however this may be, let us consider briefly a few of the most important changes.

The first change which is noticed in watching a game under the new rules, is the substitution of the place-kick, at the beginning of the halves and after touch-downs, in place of the old method of touching the ball to the toe. This rule was evidently introduced to do away with opening V's and other mass plays which were formerly used at such times. The rule would do very well, were it not for the provision attached to it. This provides that if the ball is kicked outside from the kick-off, it is brought back to the centre and the man is given a second chance to kick. If it goes outside a second time, it goes to the opponents, who are also obliged to kick from the centre of the field. As neither side desires to give the ball into the otherside's possession inside bounds, this kicking outside might be kept up until it would at least detract from the interest of the game. Without this provision, the side having the ball would kick it as far into its opponent's territory as possible, thus encouraging kicking, which was a second object in this rule.

A second change is that of allowing but three men more than five yards back of the rush-line. Although this is a step in the right direction, it falls far short of perfection. It does not interfere with the flying interference which Harvard used last year, and against which so much has been said, neither does it materially affect the famous Pennsylvania play, and, as far as can be judged from the number injured so far this year, the evil does not seem by any means to be wholly remedied.

A third change is, that after the ball has been kicked over the goal-line, either on a punt or a try for a drop-kick from the field, the ball is brought out to the ten, instead of the twenty-five yard line. This rule is obviously to encourage punting and drop-kicking, and may accomplish this purpose, but whether the difference of fifteen yards will encourage to any extent what has been done so seldom in the past, remains to be proved as the season advances.

More stringent rules about interfering with the centre while he is snapping the ball back, will prevent a large amount of killing time at
important points in the game, and will tend to make the game more snappy and less liable to delays.

That one is somewhat disappointed with the new rules must be admitted, but, as they are in some ways an improvement on the old, they should not be too severely criticised. The changes will make a tendency towards end plays, and here the writer thinks that our Institute team makes one of its biggest mistakes in playing their ends close to the tackles in defensive play. That the ends can do better work in breaking up interference and in preventing long gains, by playing out, has been conclusively proven. And the fact that both Harvard and Yale pursue this method, should have no small influence in its adoption. The continued advice of our first coach, Mr. Earle, to have the ends push the runner in and not to let him get on the outside, is a rule which our team would do well to consider. Theoretically, the new regulations should favor our team, for they are supposed to benefit light teams; but, practically, I think we lose more than we gain by them. They throw out our opening plays, on one of which we scored from Brown at the kick-off last season. They interfere with a criss-cross between the half- and quarter-back, which was worked very effectively by our team last year. They favor a team which contains good punters and good drop-kickers, which at present, in our team, are conspicuous by their absence.

A NEW SCHEME.

To the Editor of the WPI:

The expense of a four-year course in our Institute is necessarily large, especially for those who do not live in Worcester.

The chief item for an out-of-town man to consider is his board.

There are a few places where a man can find very reasonable board, but none of the places are satisfactory in every way. In colleges where there are dormitories there usually dining-halls also. This is true of Harvard, Trinity and many others.

But at many colleges there are clubs. Memorial Hall at Harvard is not large enough to accommodate all the students, and there is a club called the Foxcroft Club, at which board may be obtained at even cheaper rates than at Memorial Hall.

Now I believe that a little labor and thought on the part of the students, aided by advice from some of our Faculty, would effect a great result. Certain it is that a suitable building, convenient to the Tech, could be found and men secured to take charge of the establishment.

FRESHMAN.

BLACKSMITHING AT THE SHOP.

The Course Improved.

Blacksmithing is a department which of late years has not been up to the standard characteristic of the Institute. Excellent instruction has been furnished, but sufficient time, however, has not been allotted to it. At Cornell and M. I. T. at least a hundred hours are devoted to this each year, whereas, last year, many students here did not receive more than twenty hours in the shop.

A new forge is to be placed in the shop soon. This will give each student a third more time for practice.

Mr. John Jernburg, instructor in this department, has just arranged a course which is expected to prove very satisfactory.

Mr. Jernburg received many of his ideas while in Sweden, the past Summer, while many were taken from the courses of similar schools.

The course is systematically arranged, and is on much the same plan as the elementary practice in the wood-room. There are seventeen blue prints, mounted on boards, each giving the drawings in detail for one or more pieces of work.

Plate No. 1 illustrates an exercise on hammering and bending, and No. 2, another exercise on bending. No. 3 gives the details for making S hooks and bent rings. No. 4, harness-hook, truck-hanger, hook and staple. Plate No. 5 shows how a round piece of iron is to be drawn out into a hexagonal and pyramid point, and also octagonal and conical point. No. 6 shows two kinds of angle irons, parallel-legged and taper-legged, to be made by bending.

No. 7 is the making of chain links and welded rings.

No. 8 has several forms of the V scarf weld. Plate No. 9, is an exercise on welding T and knee irons. No. 10, T iron and clevis. No. 11, hook and swivel of wrought iron. Plate No. 12, half-inch bolts with nuts, hexagonal and square heads. No. 13 octagon centre punch, flat chisel and cape chisel. No. 14 takes up the making of lathe tools, the round-nosed tool and cutting-off tool. No. 15, the side tool and diamond point. No. 16, steel spring, flat drill and flat pein hammer, while the last number gives the detailed drawings for a pair of tongs.

Mr. Jernburg intends to add three more plates to the course, which will embody fancy work. The course appears to be very practical, taking up as it does the different kinds of work from elementary hammering to practical tool making.

Another important feature in this department is the making of piano-lamps. No less than seventy-two were made last year by the students,
and the business is still good, six or seven having commenced making them.

PLYMOUTH CHURCH RECEPTION.

The young people of Plymouth Church tendered a reception to members of the Polytechnic Institute and Academy, Tuesday evening, Oct. 23. There was a very fair representation from the Tech, and all expressed themselves as highly pleased with the evening’s entertainment. The Academy, for some reason or other, was not nearly so well represented as the Tech.

Those receiving were Mrs. L. P. Goddard, Mrs. P. B. Morgan, Miss F. M. Dodge, Dr. McCullagh, Mr. G. H. Mellen, and Mr. H. L. Gale.


At the close of the reception, which extended from 7.45 till 8.15, Dr. McCullagh addressed the company, giving a cordial invitation to members of both institutions to attend Plymouth Church, if they had no other church home. The company then participated in a "Penny Social," which was the source of a good deal of amusement.

The song, "In Absence," was then rendered very acceptably by the Tech quartet consisting of F. H. Craig, G. O. Sanford, H. L. Cobb, and R. H. Taylor.

"A Kitchen Symphony," in which seven of the Plymouth Church young people took part, next occupied the attention of the company, and formed a very appropriate prelude for the "light refreshment" which followed immediately after. The Techs seemed quite at home with these and responded in their usual loyal manner. The remainder of the evening was very pleasantly occupied singing college songs.

MEETING OF THE ATHLETIC ASSOCIATION.

A number of students attended the meeting of the Athletic Association held in Chapel at noon, October 25. The meeting was called to order by George A. Denny, '95. The reading of the reports of the Secretary and Treasurer were omitted, and nominations were then made for officers for the ensuing year. Frederick W. Parks, '95, was elected President and immediately took the chair.

A motion was then made, that in case there were two or more men nominated for the same office the names of the nominees be posted on the bulletin board in Boynton Hall, and that, after the expiration of one week, these names be voted upon. This motion was seconded and carried. The following nominations were made:

2. For Secretary, O. W. Lundgren, '97, H. H. Morse, '97.

F. E. Wellington was the only one nominated for manager, and he was therefore elected. The meeting then adjourned for one week.

On Thursday, November 1, a second meeting was called to take action on the nominations of the preceding meeting.

It was moved and carried unanimously that the voting be done by ballot, with all the officers on one ballot. The chair appointed Throop, '97, Coe, '96, and Sanford, '95, tellers. The results of the vote were as follows:

For Vice-President: Knowles, '96, received 27 votes, and Zaeder, '96, received 13 votes. Mr. Knowles elected.

For Secretary: Lundgren, '97, had 7 votes, Morse, '97, had 24 votes. Mr. Morse elected.

For Treasurer: Throop, '97, received 16 votes, and Tilden, '95, received 27 votes. Mr. Tilden was elected.

Quite a long discussion then followed concerning the advisability of accepting the challenge of Holy Cross College to a team race, to be held at the first indoor meet of the Worcester Athletic Club. It was finally decided to accept the challenge. At a recent meeting of the students of Holy Cross College it was decided not to run the above mentioned race. No reason was given for such action.

The action of several students who wear the Tech "W," having no right to the letter, was then brought up for discussion. The matter received much attention, and finally a motion was made and carried unanimously, that a committee of two men from each class be appointed to prevent all students, who have never represented the Institute in athletics, from wearing the crimson "W." In compliance with the above vote, the President appointed on this committee the following men: A. H. Warren, '95, C. A. Harrington, '95, R. S. Riley, '96, T. M. Coe, '96, H. H. Morse, '97, Daniels, '97, Harrington, '98, and C. A. Booth, '98. The meeting then adjourned.

Y. M. C. A.

The Worcester Y. M. C. A. present for the coming winter a programme of entertainments even more attractive than last season's, if one can judge from the schedule given below. It will be seen that a number of last season's most
popular entertainers appear again. There are also new ones which are well enough known to insur a full house.


Thursday, Nov. 8, Lotus Glee Club.

" Nov. 22, Bob Burdette of Chicago, on "The Rise and Fall of the Moustache."

Thursday, Nov. 29, Wesleyan University Glee and Mandolin Club.

Thursday, Dec. 13, Prof. Cumnoch of Ohio, Reader.

Thursday, Dec. 27, Shipp Brothers, English hand-bell ringers.

Thursday, Jan. 10, Boston Lyric Club.


Thursday, Feb. 14, John de Witt Miller, "Uses of Ugliness."

Thursday, Feb. 28, Brown University Glee, Mandolin and Guitar Club.

Thursday, Mar. 14, Chas. Underhill of New York, Elocutionist.

Thursday, Mar. 28, Boston Rivals.

The classes in the gymnasium have commenced for the winter, and quite a number of "Techs" are seen taking advantage of this opportunity for physical culture. There will probably be a still larger number exercising there after the close of the football season.

The cost of unlimited membership has been reduced to $6 for members of the "Tech" Y. M. C. A. This includes the gymnasium, shower and tub baths, swimming tank, and also the course of twelve entertainments, which are included in limited membership, or membership of "Tech" Y. M. C. A.

The building has been generally refitted, and the interior arrangements somewhat changed during the summer, making it a very pleasant and comfortable place in which to spend leisure time. The gymnasium apparatus has also been thoroughly put in order preparatory to the winter's work.

The W. P. I. Y. M. C. A. has received a considerable addition to its numbers since the beginning of this half. There have been several new members from '98, as well as from the three upper classes.

The noon meeting, Wednesday, Oct. 3, subject, "Thou God seest me," was conducted by R. L. Riley, '96.

**COLLEGE NOTES.**

At a recent meeting of the Columbia College Athletic Union the following plan was agreed upon by the directors, and will be adopted if the University Council and the main body of the students think it advisable: "The name of Columbia College Athletic Union is to be changed to Columbia College Union, and the new union is to have control of all athletic and student organizations which apply for admission. It is to be governed by fifteen directors,—two official representatives from the rowing associations, two from the track athletics, one representative from the freshman crew,—to be elected on joint ballot of the freshman classes in the Arts and Mines; representatives of any other interests or associations admitted to the Union; two representatives from the Athletic Committee of the University Council and six alumni, elected by the Standing Committee of the Alumni Association. All the directors are to be elected annually. The board is to elect all the officers, the president, vice-president and treasurer being alumni and the secretary an undergraduate. The president is to be temporary chairman of, and to preside at and call together, all the student mass-meetings."

The schedule of the concerts to be given by the Glee and Banjo Clubs of Yale on their winter trip, has been arranged as follows:—

- **ALBANY**, December 20th, 1894.
- **ROCHESTER**, December 21st, 1894.
- **BUFFALO**, December 22d, 1894.
- **CHICAGO**, December 24th, 1894.
- **ST. PAUL**, December 26th, 1894.
- **MINNEAPOLIS**, December 27th, 1894.
- **OMAHA**, December 29th, 1894.
- **KANSAS CITY**, December 31st, 1894.
- **LOUISVILLE**, January 2d, 1895.
- **CINCINNATI**, January 3d, 1895.
- **PITTSBURGH**, January 4th, 1895.
- **HARRISBURGH**, January 5th, 1895.

Williams has inaugurated an important change in the management of her athletic associations. S. G. Tenney, '86, is treasurer of the three associations. He will have control of all receipts and expenditures. The managers are to draw upon the treasurer for their various needs and consult with him over any important step.

The Hasty Pudding Club of Harvard, has elected the following officers: President, W. K. Brice; Vice-President, R. D. Wrenn; Secretary, D. Purdon; Treasurer, E. D. Holmes; Chorister, R. L. Whitman; Librarian, F. B. Winslow.

The number of candidates at Princeton's football training-table is 47.

Trinity's Dramatic Club has organized for the season with David Willard, '95, as stage manager. Prof. C. J. Johnson has written a new farce-comedy for the club, entitled "Germs."

Of the sixty members of the Freshman Class at Bowdoin, forty-five have been initiated into the various Greek letter societies.
It is a significant fact that while nearly all the larger colleges show a large increase in the number of their entering classes, Princeton and Cornell show a decided falling off. This is attributed directly to the disgraceful hazing practices which took place at these institutions last year. The faculty at both institutions have forbidden the practice very sternly, and it is hoped this marked-falling off in numbers will awaken the common sense of the sophomores at these and all other institutions and that this relic of barbarism will be discredited in the future.

The thirty-sixth annual meeting of the Association of Colleges in New England was held at Amherst on Thursday and Friday. A reception was given to the delegates and the Amherst faculty by the president and Mrs. Gates. At the principal session of the conference, on Friday morning, President G. Stanley Hall, of Clark University, opened the discussion of the subject, "The German Gymnasium and the French Lycée: What Do They Suggest for the American College?" Another session was held in the afternoon. The president and one professor from each of the thirteen colleges in the association attended the convention.

The Class of '98 of Harvard numbers 582 men, an increase of 112 over last year's Freshman Class.

Yale College is endeavoring to have the date of her game with Princeton changed from Thanksgiving to the Saturday after that day.

The total number of students in Wellesley College is 780.

Smith College has a new dormitory named Dickinson House.

Harvard this year will offer 210 courses and 134 half-courses.

Over eighty candidates are now trying for the Harvard crew.

At Chicago University there is one instructor for every six students.

The students of Wesleyan University now have a voice in the government of the institution.

The Faculty of Boston University has voted to allow work on the college paper to count as work in the regular English course.

Scarlet has been adopted by the University of Chicago as the college color.

No college in entire England publishes a college paper. In America over 200 colleges publish periodicals.

The University of Chicago has just received from John D. Rockefeller $50,000 to be immediately expended in books.

At a recent mass meeting of all the undergraduates of Princeton it was decided to abolish the custom of hazing.

The Board of Trustees of Clark University recently voted to suspend the department of Chemistry.

Heffelfinger of Yale will this year coach the team of Lehigh University.

One of the finest art buildings in the country, known as the Walker Art Building, was dedicated last June at Bowdoin.

McGill University, Montreal, is the possessor of the most complete set of Reuleaux models, for instruction in kinematics, on this side of the Atlantic. The Berlin Polytechnic has a still more complete set.


The laboratory work in mineralogy is now done in the Salisbury Laboratory instead of in Boynton Hall as formerly.

HEARD IN MECHANICS.—Why could —— be used to illustrate problems on beams? Because he is loaded uniformly.

PETROLEUM vs. COAL FOR FUEL AT SEA.

Petroleum residuum is winning its way in competition with coal as fuel for ships. It has one-eighth less bulk than coal; its calorific power is nearly twice as great; about twice as much power, therefore, can be carried in bunkers stowed with petroleum than with coal; moreover, it burns without either smoke or ash, requires no stokers, and is non-inflammable until heated to 350 degrees. Tank steamers can convey it to points needed, and transfer it to a vessel in the open sea by merely using a hose and pump. England is not yet prepared to adopt it for navy use, and passenger steamship companies still fight shy of it, but freight steamers are finding its use practicable and economical, and the conviction grows that petroleum is the fuel of the future for all vessels generating steam.

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