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Send for Catalogue.
The man who so faithfully
his departure this paper has lost its most

last spring has left the Institute, and with
all transactions
conference committee, will meet soon with
If it be within your power
organized, yet your influence is soon to be felt.

Again, we greet you,
Your athletic
distinguishing themselves on the
work well. Let not '98
and hope, nay, expect, they will do their
success of you. Your men
distinguishable of you. Your men are daily seen
distinguishing themselves on the football
field. Report also says that the class is doing
well toward the financial support of the team.
Although your class is not as large as others
have been, and although you are not yet or-
organized, yet your influence is soon to be felt.
Your athletic directors, your members of the
conference committee, will meet soon with
those of the other classes. Let your aim in
all transactions be toward college patriotism.
If it be within your power to prevent, let no
shadow fall upon the name of our Institution.
Again, we greet you, and wish you a suc-
cessful four-years’ career.

Again the W P I must announce a change.
The man who so faithfully edited this paper
last spring has left the Institute, and with
his departure this paper has lost its most
capable and energetic man. The college too
will feel the loss, but not so keenly as this
board. Our former chief still clings to news-
paper work, and, while wishing him every
possible success, we will make it our earnest
endeavor to keep the W P I as faithful a
record of college sentiments and doings as
formerly.

The interests shown by the students in
football this fall presages success. The
captain is intensely interested in the game,
and spares neither himself nor his men.
Considering the short time since college
opened, the team is remarkably well trained
physically. The manager believes that the
best is none too good for the men, but is
constantly reminded of the small sub-
scriptions received in previous years. At present,
with 200 students in the college, it does not
seem too much to expect a subscription list
of $500. Let no man refuse the solicitor,
but each put down his mite, and thus we will
show the men who are working so hard for
the honor of the Institute that their efforts
are appreciated. More men must come
out for practice, and these should come large-
ly from the two lower classes. The Freshmen should remember that by coming out now, they will gain experience which will, coupled with hard work, eventually secure them a place on the 'varsity. The schedule of games shows that the eleven is to wage battle with worthy opponents. Now no matter if the team is not victorious in its games it must have the constant support of each student. Without this unanimous support the team cannot exist. It remains with the body of the students to make the season a success.

It was our firm belief that Tech men had seen enough of the evils resulting from allowing coaches or interested persons to referee athletic matches, to cause them to shun such persons. Tech's experience with football coaches as referees has been most unfortunate, and we trust that in future our athletic contests will be umpired by disinterested persons. We forbear commenting on the Tech-Academy game further than to say, that we believe the Academy players did not entirely approve their coach's actions. A communication from the captain of the Tech eleven is printed in another column.

We hope the attention of members of the Institute, especially of the '98 men, has been called to the WPI notice on the bulletin board. There is a vacancy on the Board of Editors in each class. Probably no training is better for a man than a little journalism connected with his college work. Therefore it is hoped that a large number of men from each class will compete for a position on the Board. The terms of competition will be found carefully stated in the notice. It is the intention of the Business Manager to place a copy of this issue in the hands of every Freshman. They will then see the character of the contents, and realize that every patriotic student should be a subscrib-

er to his college publication. The terms are within the reach of all, and '98 should rival the upper classes in the size of her subscription list.

Last winter, when the Glee Club was organized, it was the intention of the founders that the organization should be permanent. This state of affairs, however, seems not to have followed. While no formal disbandment has taken place, the organization has quietly, but none the less surely, drifted into oblivion, leaving behind it memories of a short but pleasant career. Now this should not be. There is no reason why we should not have a first-rate glee club. Several of the best men of the club are back again this year, and with these for a nucleus and the rest of the Institute to draw from, a fine club could no doubt be formed. It is useless here to state the many arguments in favor of such an organization, they are axiomatic. Now let us take hold and resurrect the club from the apathy of its members, and we will have an organization which will be a credit to the Institute, as well as a source of pleasure and profit to its members.

Owing to the kindness of the Hon. Stephen Salisbury, the Institute eleven has a suitable field for practice. The manager of the eleven, foreseeing that many hard knocks and even injuries might be caused by the rough, uneven state of Dewey's Field, secured Senator Salisbury's permission to use the field at the foot of Tech Hill. The ground is admirable and the management should have the lines put down and goal posts erected immediately. Senator Salisbury has but added another to his already long list of favors to the Institute, and has earned anew the gratitude of every man in college.

Many athletes in the college question the advisability of holding the cross-country
runs this fall. Last season they interfered seriously with football, as they drew many men, who could ill be spared, from the second eleven, and thus retarded the progress of the 'varsity men. But the same objections were raised by the baseball men when the runs were held in the spring, and they were transferred. This branch of sport does but little good to the college compared to the harm done to other lines of athletics, and we believe the Athletic Association should seriously consider discontinuing the runs.

The new Shop report, which is reproduced in another column, is the result of the Superintendent's efforts to find a suitable method of showing each student his standing. The result seems eminently satisfactory to us, especially since it shows clearly the workings of the latest Shop rules. By a slight study the student is enabled to see just how much time he has lost in the various departments of the Shop, and just how that loss has affected his mark.

FOOTBALL SCHEDULE FOR 1894.


FOOTBALL.

For over a week before the Tech opened, Capt. Ware and several men were on Bliss's field for preliminary practice. Charles B. Earle, of Harvard '94, coached the men, and much progress was made before the Institute work began. This is a long step for the advancement of football and it is to be hoped future captains will follow the precedent set them by Capt. Ware.

The first week of practice was devoted to the chief points of the game and it was some time before any men lined up. On the 12th inst. a practice game was played with the High School, and thus the weak points of the play were shown to a large extent.

Many old players have been practising, and in addition the Freshman Class has added several excellent men. Among these may be mentioned Booth, Hitchcock and Dimick.

The management has secured the services of three good men as coaches. Charles B. Earle, who had charge of the men till the 15th of Sept., is a Worcester man. He attended the High School and then entered Harvard, playing quarter-back on his class team throughout his course. Mr. Earle, as a coach, was a decided success. He put on football clothes and went in to play football as well as to teach it. In this way he made his advice go just where he wished and proved that what he said should be done, was the right thing to do.

On the departure of Mr. Earle his place was filled by William E. Langlois, another Worcester man. Mr. Langlois played on the High School team of 1889 and graduated from the High School in '91. He then entered the University of Pennsylvania and was made substitute for end. He is a very capable man, and in his coaching he is earnest and practical and has done much to improve the play of the men.

Mr. Langlois will be here for some time, and when he leaves Mr. Lake of Harvard fame will have full charge of the coaching. Mr. Lake is well known and needs no introduction.

ON TECH FIELD.

Two Practice Games.

About 300 lovers of the sport stood in a drizzling rain, and watched the practice football game between the Worcester Academy and Tech eleven, Wednesday, Sept. 19th. Dark and rainy as the day was, the gloomy weather was incomparable to the gloomy spirits manifested by the Tech constituents, after the game was over. Although only a scrub game, it was calculated to show up the good or bad points of the elevens, and the fact that the W. A. team scored the only touch-down was disheartening from our point of view. The effect it had on the Academy men was very different, for their joy seemed unlimited.

In the first half the Academy men gained our men napping, and deceived them by a clever round-the-end trick, which netted them a gain of 35 yds. Following this up with several good gains, they soon scored. In the second half the ball was kept in the Academy's territory most of the time, and when time was called the ball was within five yards of their goal line.
It was evident that both teams were weak in many respects, and lacked team work. Some of the fumbling was doubtless caused by the rain. The teams lined up as follows:

Academy.

Young, r. e.
Barker, r. t.
Sargent, r. g.
Hanley, cent.
Hastings, l. g.
Edmands (Capt.), l. t.
McBridge, l. e.
Fish, q. b.
Barker, f. b.
Chase, l. h.
Clark, r. h.

Tech.

l. e., Ware (Capt.)
l. t., Smith
l. g., Ross
cent., Riley
r. g., Leland
r. t., Booth
r. e., Harris
q. b., Hitchcock and Warren
f. b., Nelson
r. h., Allen
l. h., Dimick and Hitchcock

Score: Academy 4, Tech 0.

Umpire J. F. Herbert; Referee, Whittren.

Time, two 15-minute halves.

NOTES ON THE TEAM.

Don’t be discouraged! Things will go better with a little more work.

The tackles played a good game.

Harris was out of position when most needed.

The men should have had their eyes on the ball, and not been so easily deceived by their opponents’ tricks.

Capt. Ware is one of the men who tackle high.

Dimick plays a good game.

The full-back should practice kicking off.

Every man must become more familiar with the signals.

The team cannot expect to do its best unless the second eleven is out every night.

Thursday night the eleven played a practice game with the High School eleven. Play lasted about 15 minutes, the High School scoring two touch-downs and Tech one. Tech’s play was wretched, both in offence and defence, especially in the latter, the line halves being so placed as to be of no assistance in stopping tackle plays. Tech’s interference was encouraging at times, and that, too, around the ends where they have usually been weak.

THE FIRST GAME.

Tech vs. Academy at the Oval.

The Institute football team played its first regular game last Saturday, and won it. Some of the more sanguine of its supporters even say that, with another man in Mr. Whittren’s place, the Academy would have failed to score at all. Many of his decisions were decidedly off color, and even caused the Academy men to smile at times. That Capt. Edmands should not have been willing to put another man in as referee seems decidedly suspicious. Capt. Ware also did wrong in ever allowing the coach of the opposing team on the field, especially after the exhibition of Mr. Whittren’s powers in the fore part of the week, and after the lesson taught by Brown’s coach last year. It was four o’clock when Barker kicked off and opened the game. After Nelson had been down the teams lined up as follows:

<table>
<thead>
<tr>
<th>Academy</th>
<th>Tech</th>
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<tbody>
<tr>
<td>Harris</td>
<td>r. end l.</td>
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<tr>
<td>Leland</td>
<td>r. tackle l.</td>
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<tr>
<td>Killam</td>
<td>r. guard l.</td>
</tr>
<tr>
<td>Riley</td>
<td>centre</td>
</tr>
<tr>
<td>Brigham</td>
<td>l. guard r.</td>
</tr>
<tr>
<td>Leland</td>
<td>l. tackle r.</td>
</tr>
<tr>
<td>Ware (Capt.)</td>
<td>l. end r.</td>
</tr>
<tr>
<td>Warren</td>
<td>quarter back</td>
</tr>
<tr>
<td>Cunningham</td>
<td>r. half l.</td>
</tr>
<tr>
<td>Allen</td>
<td>l. half r.</td>
</tr>
<tr>
<td>Nelson</td>
<td>full-back</td>
</tr>
</tbody>
</table>

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<tr>
<th>McBride</th>
<th>Hayes</th>
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</thead>
<tbody>
<tr>
<td>Edmands (Capt.)</td>
<td>Leland I.</td>
</tr>
<tr>
<td>SRC</td>
<td>Killam</td>
</tr>
<tr>
<td>Allen</td>
<td>Cunningham</td>
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<td></td>
<td>Nelson</td>
</tr>
<tr>
<td></td>
<td>Clark, r. h.</td>
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</tbody>
</table>

In eight minutes Tech scored the first touch-down by Allen’s long run around the end, and by attacks on the centre. Allen missed the goal.

Tech, 4; Academy, 0.

Again Tech got the ball, and twice around the end, with Allen’s long sprint made the necessary distance. The interference on this run was the best of the afternoon, and Allen followed his blockers in perfect shape. Killam kicked an easy goal.

Tech, 10; Academy, 0.

On the line-up Barker kicked twice out of bounds, and the ball went to Tech. Nelson kicked off, and Academy had the ball. They were held for four downs, but regained the ball on holding by Killam. After gaining a little, the ball was lost to Tech on a fumble. Allen made another long run, but stepped on the side line. The ball was brought in, with eleven seconds to play. A splendid end play scored a touch-down with one second to spare. Killam failed in his try at goal.

Tech, 14; Academy, 0.

In the second half the Academy lined up with the ball from the kick-off. Clark, who had taken Atkin’s place, made a twenty-yard run. Slowly the Academy forced the ball along, and scored their first touch-down. Barker kicked goal.

Tech, 14; Academy, 6.

Again the Academy, aided by their coach, carried the ball forward, and it was on the twenty-five-yard line that the decision was given which caused Capt. Ware to order his men from the field. After a short delay, however, the teams returned to the game; and
Academy scored their last touch-down in short order. Barker kicked goal.

Tech, 14; Academy, 12.

Nelson's kick-off was fumbled, and Harris fell on the ball. Tech immediately carried the ball forward, and was in a way to score, when Brigham fumbled. Time was called shortly, without the score being changed.

Summary:—Tech, 14; Academy, 12; touch-downs: Allen, 3; Barker, 2; goals: Killam, 1; Barker, 2. Time, two twenty-five-minute halves. Umpire, Mr. Dadmun; Referee, Mr. Whittren.

Considering the practice which the Tech team has had, the game was a credit to them. In the case of the trick plays, however, each man should not go where he thinks the ball is, but should see to it that no one carries it by his position. It was on account of this weakness, that Barker made his great gain through the centre. Again, the centre men were inclined to play too high and too far apart. There are two things which should be remedied immediately. The failure to kick two goals gave the team a close call. The best man should be picked out, and should practice goal work, for there is no easier way of scoring two points. Also, on the kick-off by the opponents any man may be required to catch the ball and run with it. In this most of the players are weak, and few seemed to think of forming an interference about the man who was to catch the ball. Probably both the Academy and Tech teams would like another game, but it is doubtful if any such arrangement will be made, as the Oval dates are completely filled.

THE NEW PRESIDENT OF DRURY COLLEGE.

Dr. Fuller's New Charge.

The students will be glad to hear of the honorable position that has been accepted by our ex-president, Homer T. Fuller, Ph. D. Early in July the Trustees of Drury College at Springfield, Missouri, extended a call to Dr. Fuller to become president of the college and lecturer on Moral and Mental Philosophy. Dr. Fuller went to Springfield to examine the field and soon accepted the call.

Drury College is beautifully located in a thriving, pushing, western city of 30,000 people. The school was first opened in 1873 with but 39 students. Since then this number has constantly increased and the last annual catalogue registers an attendance of 372. The college now possesses an endowment of about $190,000, which will soon be increased by a bequest of Samuel F. Prouty of $15,000, available within a few months. The buildings are eight in number and they are all beautiful pieces of architecture. The Stone Chapel has a seating capacity of about 1200, and was built at a cost of $40,000; Fairbanks and McCullagh Halls are spacious dormitories. The latter was built by E. A. Goodnow of Worcester in honor of the late wife of Dr. McCullagh, Rector of Plymouth Church, Worcester. In addition to the buildings mentioned, there is a large museum, a recitation hall for the Academy, a gymnasium, and a president's house. The total value of the buildings and grounds is about $275,000.

The college has one of the largest libraries west of the Mississippi. The first floor of the Stone Chapel is used for this library. The number of bound volumes is estimated at 23,000, while the number of pamphlets is about the same. There is also a reading room, which is open to the students every afternoon.

The Museum and Laboratories are both fitted with everything generally found in such buildings. The museum has a collection of marine forms of animal life which is unequalled in the great Southwest. The laboratories are especially fitted with apparatus for work in all branches of Physics, Engineering, Chemistry, Mineralogy, Botany, and Biology.

The courses of study are divided into two departments, the College and Academic. In the College department instruction is given in Latin, Greek, English, Modern Languages, History, Literature, Mathematics, and Political Science. The work is carried on by the most skilled instructors, all graduates of the leading institutions of learning.

In the Academic department is given a most thorough preparation for college. It has always been the aim of the faculty to make this department equal to the best preparatory schools of New England.

A course of study that deserves special mention is the Young Women's department. The students of this course have the same advantages as the young men. They recite in the same classes, pursue the same course of study, and compete for the same "Honors" and "Degrees."

In his new field of work Dr. Fuller is sure to do much good. His long and successful experience at the Tech and his scholarly attainments, give promise of the best work, and he will have the hearty support of an excellent faculty and devoted board of trustees.
THE FRESHMEN.

The following is a list of the entering class, which we believe to be correct:

<table>
<thead>
<tr>
<th>Name</th>
<th>Home</th>
<th>City</th>
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<tbody>
<tr>
<td>William G. Allen</td>
<td>Worcester</td>
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<td>Allison P. Ball</td>
<td>Worcester</td>
<td>Washington, D. C.</td>
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<td>Gilbert Bloss</td>
<td>Honolulu, H. I.</td>
<td>Northampton</td>
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<td>W. B. Bingham</td>
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<td>C. A. Booth</td>
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<td>S. H. Tarbox</td>
<td>West Medway.</td>
<td>Fitchburg.</td>
</tr>
<tr>
<td>Frederic W. Whittemore</td>
<td>West Medway.</td>
<td>Fitchburg.</td>
</tr>
</tbody>
</table>

DR. MOORE'S SUCCESSOR.

The Trustees of the Institute have elected Dr. Walter Louis Jennings as a successor to Dr. George Moore. Dr. Jennings is a man twenty-eight or twenty-nine years of age. He graduated from Harvard, securing the degrees of A. M. and Ph. D. He then obtained a travelling fellowship from that University and studied in Germany at Heidelberg and Berlin. At the latter place he was private assistant to Prof. Emil Fischer, the director of the Berlin Chemical Laboratory, well known for his investigations of the constitution of sugar. Dr. Jennings returned to America and was appointed an instructor at Harvard, and comes from that position to his new one here. He will teach Organic Chemistry, Scientific German, and Mineralogy.

OUR NEW PRESIDENT.

He will Arrive About October First.

As October 1st draws near, the students of the Institute are becoming more and more impatient for the time of installation of the new President. Those who know of the excellent standard to which Rose Polytechnic was raised during Dr. Mendenhall's administration, cannot help but feel assured that the beginning of a new era in Tech history is fast approaching.

Dr. Mendenhall has passed the summer abroad, and has returned home but lately. From New York he goes directly to Washington for a few days, and will probably arrive in Worcester to assume his duties about October 1st. As soon as the residence under construction at the foot of the hill is completed, it will be occupied by the President and his family—his wife and a son who was recently graduated from the Rose Polytechnic.

President Aldrich of the Board of Trustees has already been making preparations for a reception to the President by the Trustees and Faculty.

THE PRESIDENT'S HOUSE.

The foundations for the residence being built by Hon. Stephen Salisbury for Dr. Mendenhall, are almost completed, and give promise of a very substantial structure. The architect is Mr. Stephen C. Earle of the firm of Earle & Fisher, architects.

The house is to be located on the southwest corner of Boynton Street and Institute Road. It is on the same side of Boynton Street as the "Tech" buildings, and just across Institute Road from the Magnetic Laboratory. The lot has a frontage of 150 feet on Boynton Street, and owing to the sweep of Institute Road it tapers to about 60 feet in the rear. It has a depth of 140 feet.

The house, which will be of wood, two stories high, with a steep pitch roof, will front on Boynton Street. The general style of the architecture will be Colonial, and the plan is somewhat broken in outline to allow of picturesque effect. In extreme dimensions it will be 60 feet square.

The building is arranged as a domestic establishment, but at the same time is planned to be
somewhat more spacious than is usual, with the idea that it is the President's house, and is likely to be used for occasional receptions or festivities of a like nature.

The entrance is at the northwest corner, and opens directly into a hall 15 by 25 feet. That is connected with the reception room at the left, 14 by 16½ feet, which in turn leads into a living room, 16 by 24 feet. There is also a dining room, 14 by 24 feet. On the North side of the house is the library, 16 by 26½ feet, with an adjoining alcove, 6½ by 10. In the rear, a commodious kitchen, with china closets and other conveniences, complete the list of rooms on the first floor. The rooms downstairs are to have hardwood floors of birch and maple, and will probably be finished in birch.

On the second floor are four large bedrooms, with spacious closets, and two bathrooms. The attic, with the exception of a servant's bedroom, will be unfinished. The second floor rooms are to be finished in whitewood.

The house will be fitted with all the modern conveniences in the way of light and heat, and seems to be excellently designed for the purpose for which it is intended.

---

**WASHBURN MECHANICAL ENGINEERING SOCIETY.**

The annual meeting of the Society will be held in the Salisbury Laboratories Monday evening, Oct. 8th, at 8 o'clock. Officers for the ensuing year will be elected, and two amendments to the Constitution of the Society will be acted upon. Mr. Paul B. Morgan, '90, will read a paper on "Modern Types of the Reheating Furnace." Mr. E. E. Johnson, '84, will present a paper, the subject of which will be announced later. Members are requested to bring friends and take part in the discussion of the papers. Geo. I. Alden, Secretary.

---

**THE TENNIS TOURNAMENT.**

At a meeting of the W. P. I. Tennis Association Sept. 25th, it was voted to hold the annual tournament immediately. There is a large list of entries. Prizes will be offered for both singles and doubles. The winner of the tournament will play J. J. Coburn, '95, for the Landsing cup.

---

'96. The fall election of '96 was held Sept. 25th. The following officers were elected: President, F. E. Knowles; Vice-Pres., J. B. Mayo; Secretary, H. G. Phelps; Treasurer, J. C. Tilton.

---

**THE NEW SHOP REPORT.**

Below is a copy of the report which Mr. A. B. Z—of the class of '9—will receive on application at the Washburn Shops. From it, all mechanics may learn much with regard to the system of marking.

**PRACTICE RECORD**

**Mr. A. B. Z**—JUNIOR CLASS.

From January, 1894, to June 2, 1894.

Practice in

**THE WASHBURN SHOPS.**

Total number of hours required, 160.

<table>
<thead>
<tr>
<th>Excuses filed for 24 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark allowed for satisfactory excuses, 4.</td>
</tr>
<tr>
<td>Number of times Absent, 4.</td>
</tr>
<tr>
<td>Number of times Tardy, 1.</td>
</tr>
<tr>
<td>Number of times Dismissed, 1.</td>
</tr>
<tr>
<td>Lost Time, in hours, 24.</td>
</tr>
<tr>
<td>Time made up as per checks, in hours, 60.</td>
</tr>
<tr>
<td>Time ahead for the year, in hours, 26.</td>
</tr>
<tr>
<td>Time behind for the year, in hours, 0.</td>
</tr>
<tr>
<td>Machine Shop Mark, 82 for 90 hours, 7380.</td>
</tr>
<tr>
<td>Blacksmith Shop Mark, 90 for 10 hours, 900.</td>
</tr>
<tr>
<td>Engine Room Mark, 87 for 10 hours, 870.</td>
</tr>
<tr>
<td>Tool Room Mark, 75 for 10 hours, 750.</td>
</tr>
<tr>
<td>Drafting Room Mark, 80 for 20 hours, 1600.</td>
</tr>
<tr>
<td>Wood Room Mark, 90 for 20 hours, 1800.</td>
</tr>
</tbody>
</table>

\[ \text{160} \times 300(33\text{ Average mark before deducting for lost time.}) \\
\text{4 of 24=12+160=107}\text{ Mark deducted for unaccountable lost time.} \]

\[ \text{Final Mark=79} \]

* Students receive a mark for work in each department as listed above.

The practice mark is then obtained by equating the separate marks with the time spent in earning them. Thus: The mark of each department is multiplied by the number of hours worked in that department, and the sum of these products divided by the total number of hours worked in all departments. The quotient is the practice mark.

The student receives for his lost time only ONE-HALF of his average rank, viz.: if he loses 40 hours and gives no satisfactory excuse for the same, and the total number of shop hours is 160, he would lose 25 per cent. of the whole number of hours; but if he is allowed one-half of this, or 12 ½ per cent. Therefore we deduct 32 per cent. from his average mark, leaving him the Final Mark.

---

**THE Y. M. C. A. RECEPTION.**

The officers of the Y. M. C. A. have decided to defer the reception to Freshmen until after Oct. 1st, in order to have the pleasure of Dr. Mendenhall's company on that occasion, and thus give all students an immediate opportunity of becoming personally acquainted with our new President.

The meeting Wednesday noon, Sept. 19th, was conducted by the President, F. J. Bryant, '95. Last Sunday's meeting was led by J. W. Higgins, '96.
EXPLANATION.

Our opening game of football caused an incident to occur which was regretted by all. Mr. Whittren being the Academy coach and trainer, I objected before the game to his acting as referee, but at Capt. Edmands' request I allowed him to act, but only on the condition that Edmands would put in some one else, should Whittren's decisions be considered unfair by me.

After having his decisions corrected by the linesman several times from third down half a yard to gain to third down seven yards to gain, I thought with the advice of our coach that my action was justifiable. Let us hope that in the future we may have nothing to regret after our games, and that we may not hear such language as was used last Saturday.

C. P. Ware, Capt.

NEW BUILDINGS.

The testing plant at Chaffinsville will be finished by the last of November, and will be ready for the students' use before the year is over.

Work on the engineering laboratory and power-house is being pushed rapidly, and the roofs will be on before cold weather comes. The interior will be finished as soon as possible, but the buildings will not be occupied before next September.

FOOTBALL ASSOCIATION.

Election of Officers.

A small number of the students met in Chapel last Tuesday, and transacted the regular annual business of the Football Association. The following officers were elected for the ensuing year: President, C. A. Harrington, '95; Vice-President, W. H. Cunningham, '96; Secretary, H. H. Morse, '97.

Manager Temple and Capt. Ware made some plain statements concerning the interest shown in the football team by the members of the Institute. The manager wishes two elevens out every night, and on his motion, a captain of the second eleven—Mr. H. H. Morse—was elected. He will have entire charge of the second eleven. The manager stated that the game with Brown had been cancelled, and that negotiations were being held with Amherst College to supply the date. This arrangement will be extremely satisfactory to both players and students, as the Brown team is surely much too heavy for the Institute's light men, and there would be danger of crippling the team in the face of the many games to be played this season.

COLLEGE NOTES.

At the fair of the Worcester County East Agricultural Society, held at Clinton, Sept. 13 and 14, Mr. A. W. Howe, '95, was awarded first premium ($3.00) for the best exhibit of mechanical drawings. Mr. Howe's exhibit comprised the work done by him last year at the W. P. I.

We are in receipt of a 16-page pamphlet entitled, "Contributions to an Economic Knowledge of Australian Ruts." The principal aim of this number is the improvement of wheat by selection. The author is Mr. N. A. Cobb, '81, of Sydney, New South Wales, with whose writings many of our readers are familiar. Many thanks for the favor.

'93 cards are out for the marriage of Mr. Wm. H. Parker, '93, and Miss Isabel Cady, which is to take place at the residence of the bride, 390 Broadway, Providence, R. I., Oct. 4. Mr. Parker is at present a student at Yale.

Raymond Gregory, formerly of the Worcester Academy, has recently been elected captain of the Amherst College baseball team for 1895.

The Trinity College football team has begun training preparatory to its first game with Yale.

Mt. Holyoke Seminary is more richly endowed financially than either Radcliffe or Wellesley College. It has productive funds to the amount of $270,000, Radcliffe has from $210,000 to $220,000. Wellesley has a fund of about $200,000, and has doubled its wealth in the last ten years.

Dr. Gunsaulus has been paid $50,000, his salary for five years in advance, by the Armour Institute, to ensure his residence at that place for the next five years.

<table>
<thead>
<tr>
<th>University</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston University</td>
<td>1,075</td>
</tr>
<tr>
<td>College of the City of New York</td>
<td>1,153</td>
</tr>
<tr>
<td>Columbia College</td>
<td>1,641</td>
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<tr>
<td>Cornell University</td>
<td>1,727</td>
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<tr>
<td>DePauw University</td>
<td>1,015</td>
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<tr>
<td>Girard College</td>
<td>1,625</td>
</tr>
<tr>
<td>Harvard University</td>
<td>3,150</td>
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<tr>
<td>Illinois Wesleyan College</td>
<td>1,428</td>
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<tr>
<td>Kentucky University</td>
<td>1,211</td>
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<tr>
<td>Mass. Institute of Technology</td>
<td>1,060</td>
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<tr>
<td>Northwestern University</td>
<td>2,301</td>
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<tr>
<td>Oberlin College</td>
<td>1,492</td>
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<tr>
<td>Ohio Wesleyan University</td>
<td>1,271</td>
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<tr>
<td>Princeton University</td>
<td>1,092</td>
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<tr>
<td>Tulane University</td>
<td>1,415</td>
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<tr>
<td>University of California</td>
<td>1,200</td>
</tr>
<tr>
<td>University of Cincinnati</td>
<td>1,035</td>
</tr>
<tr>
<td>University of Michigan</td>
<td>2,800</td>
</tr>
</tbody>
</table>
University of Minnesota
University of Nashville
University of Nebraska
University of Pennsylvania
University of Wisconsin
Washington University
Yale University

Harvard University now sees the Daily News issued as a rival to the Crimson which has been published in term time for the past twelve years. It has two peculiarities: it is a dollar cheaper, and has a fair undergraduate of Fair Radcliffe on its editorial force. One of the functions of the Crimson editors has been to attend the Boston theatres, without paying for their seats. Possibly the young lady will have the Symphony rehearsals assigned to her.

Prof. Cutler believes that there is no "horse" on the German book which the Junior class is now translating. The students are beginning to believe that he is right.

The electricians of the Senior class number twenty-four. Prof. Kimball lectures to them twice a week on dynamo design. Prof. Kimball's lectures on Physics to the whole Senior class are also on dynamo design, and supplement those to the electricians. The latter work at present six hours a week in the electrical laboratories.

WORCESTER ACADEMY vs. ANDOVER ACADEMY.

A Game of Interest to Techs.

On Wednesday, Sept. 26th, the Worcester Academy football team visited Andover and administered defeat to the Phillips Andover men by the score of 22 to 0. The result was a complete surprise to the pupils of both schools. The Andover men play each year with Harvard 'Varsity, and last year scored; therefore Wednesday's game shows the surprising strength of the Worcester Academy team, which was defeated by Tech 14 to 12.

Andover had the kick-off, Worcester getting the ball and scoring in six minutes. The second touchdown was made in five minutes; the third in two and a half. In the second half one touchdown was made. Three goals were kicked. The ball was in Andover's territory throughout both halves.

MARRIED.

At 6.30 o'clock, Wednesday evening, Sept. 20th, at the home of the bride, Oread Street, Worcester, Richard Chester Cleveland, '93, and Gertrude Elizabeth Smith, daughter of Mr. Jesse Smith.

The ceremony was performed by Rev. Dr. Almen Gunnison, rector of the Universalist Church. The groom was attended by his brother, Harry Rolland Cleveland, and the bridesmaids were, Miss Ella R. Zieller, Fort Plains, New York, a cousin of the bride, and Miss Mabel E. Norcross. Miss Alice W. Norcross was maid of honor.

The floral decorations of the entire house were in charge of Lange, and the music was furnished by the Boston Symphony Orchestra, led by J. J. Heron. From seven until nine o'clock, Mr. and Mrs. Cleveland received their many friends. Mr. John Cameron Abbot, '94, of Westford, Mass., Mr. Victor Nelson Cushman, '94, of New York City, Mr. William Niles Stark, '94, and Mr. Harry Lincoln Dadmun, '91, were the ushers. In the billiard room were placed the many handsome presents.

SHOP NOTES.

The "greasy mechanics" were much pleased upon their return to the Institute this fall to find a much needed improvement in the shape of individual lockers awaiting them in the Shop. These lockers, 133 in number, are situated in the old blacksmith shop. This room has also been fitted up as a washroom for the students, the other employees of the Shop using the old washroom.

The class of '97 commences this term, mechanical drawing and practice in the machine shop. During the year, as Freshmen, the members looked forward with pleasure to the time when these branches would be taken up.

The new lockers at the Shop are used this term for the first time. This improvement was greatly needed, as students could not feel safe in leaving valuables in their clothes in the washroom.

The Sophomore class received a general shaking up when it returned this fall. As it is now arranged, the class recites in but two divisions, one containing mechanics and chemists, and the other mechanics and civils.

Members of '96 are expressing their sympathy to '97 men whom they meet carrying the familiar "Descript" outfit.

THE BANJO CLUB.

The Banjo Club has not yet organized for the year. The prospects for its success this season, however, are bright, as all but one of the members have returned; and it is hoped that the Freshmen class will furnish several new men.
THE S. A. E.

It has been rumored that the S. A. E. was this year to have new quarters, but it is, however, reinstated at its former quarters on John Street. Previously, the Chapter has occupied but two floors of the house, but this year it will have four. Several members who are to room there have not yet moved in, in fact, the Society itself is not fairly settled after the summer vacation.

CLASS NEWS.

'97. Ninety-seven held a meeting Friday, Sept. 21, and elected the following officers: President, Loyd J. Davis; Vice-Pres. H. L. Daniels; Secretary, O. W. Lundgren; Treasurer, William D. Edwards. R. C. Cundal, W. D. Edwards and H. H. Morse were empowered to act as conference committee if occasion demanded. A committee to buy paper for the class was also appointed.

'95. At a meeting of the Senior class, held in the Physics lecture-room in the Labs., Sept. 19, the following officers were elected for the next half year: President, Fred M. Martin; Vice-President, Frank E. Wellington; Secretary, Clarence R. Barton; Treasurer, Harry S. Davis.

Chester B. Allen, ex '95, is in town at present, but he returns shortly to renew his studies in Germany.

FOUND

At the Phi Gamma Delta tea last June, a Tech pin, '95. Owner may obtain same by applying to J. W. Chalfant, Jr., '96.

A NOVEL ENGINE.

A most curious invention is on exhibition in Alton, Ill., the results of some investigations into mechanics made by Charles F. Sparks, of the Sparks Milling Company, who is a fine machinist. It is known as the "revolver engine," and is a high speed machine, compact in form and of great power. In appearance it resembles the cylinder of a revolver, with the spindle, or piston, running through the centre just as does the pin on which the cylinder of a revolver turns. At one end of the cylinder is bolted a plate in which are perforations, one for each chamber, and these perforations admit the steam at an angle which forces the cylinder to revolve, while at the other end is one perforation in the shell, which covers all, which allows the steam to escape. At the first mentioned end, where the revolving piston merges from the cylinder, is attached the connection from which the power is taken, while the other end of the piston controls by means of cog gearing the governor. This is all there is to the engine, and to say that it runs with a "whiz" is putting it mildly. An eight-horse power engine of this make has recently been put into the packing and refrigerating house of Luer Brothers to run the dynamo which furnishes them with electric lights, and gives the finest satisfaction, while the Hayden Machine Company is now making one of two-horse power, which will be placed in a locker of the steam yacht Glad Tidings to run a dynamo for lighting the yacht by electricity. Others are in progress of construction, and it seems as if the "revolver engine" is destined to be a success from the start.—St. Louis Republic.

ALUMNI NOTES.

'94, Warren A. Scott is with J. W. Bishop & Co., Providence, R. I.

Harry C. Boyden is with F. L. Allen, Melrose, Mass.

O. D. Rice is with F. L. Allen, Melrose, Mass.

Herbert P. Linnell is with F. S. Smith, Civil Engineer, North Adams, Mass.

E. Walter Davenport is in the employ of the Draper Mfg. Co., Hopedale, Mass.

H. S. Whitney is studying at the Eastman Business College, Poughkeepsie.

E. A. Bickford is with Bickford & Bliss, Mechanic street, Worcester.

Mr. Clarence W. Eastman, after taking the advanced course in French at the Harvard Summer School, has returned to the Institute as instructor in French and German.

W. B. Fuller is teaching manual training and drawing in Nova Scotia.


A. H. Wheeler is teaching mathematics at the Worcester English High School.

W. J. Sperl is with the Deane Steam Pump Co. of Holyoke.

'93, Nathan Heard, last year assistant in Civil Engineering at the Institute, is in the Patent Office, Washington, D. C.

Erastus Hopkins has received an appointment as assistant to Prof. Sanger, at Washington University, St. Louis, Mo.

'92, Frank B. Knight is connected with the Chicago office of the Lidgerwood Mfg. Co. as assistant engineer.

J. F. Bartlett, for the past two years
draughtsman for Norcross Brothers, is fourth assistant examiner in the United States Patent Office.

M. J. Leyden has also received his appointment as assistant examiner in the Patent Office.

---

EXCHANGES.

**Evils of Marking Systems.**

Two cribs in his pocket and one in his cuff,
Some formulæ rules and other small stuff
Tucked up his sleeve, and a stolen test,
A text-book buttoned up under his vest;
A bookish chum near to assist him.
Behold the results of a marking system.

---

NOT AT HOME.

"Not at home!" A servant's blunder.
As I dourly leave a card,
"Is she really out?" I wonder,
And my breath comes thick and hard.
And I feel chagrined, defeated,
And the house tops blur and whirl;
Is it thus a man is cheated,
For putting his trust in a girl?
Ah, will she guess my sorrow,
And my mean and jealous doubt?
Will she write and say, to-morrow,
She is sorry she was out?

Not at home! The street is dusty,
No gleam from the high arc light,
And the wind comes chill and gusty;
There'll be a storm to-night.

Not at home! The world grows bitter
And my life seems flat and tame,
As I seek the club to fritter
The night away at the game.

---

HEARTS.

"Give me your heart, my pretty maid,"
I said with gentle passion;
For to steal the heart of a winsome jade
Is now quite out of fashion.

"Kind sir," quoth she, "I give it you,
Not even asking mother.
And here's another one—that's two;
Another, and another!"

And she kept on, to my chagrin,
With spots, Ace, Jack, King, Queen.
Hearts was our game; she played to win—
And gave me all thirteen!

---

It may not be true, but I've often been told
That editors never read copy that's rolled.
This rule may be broken, but it's quite certain that
They never accept any story that's flat.

---Ex.

Customer to barber: "I want a shave."
Barber: "Have you a mug?" Customer: "Yes, and I want it shaved dumb quick."

"Pa," said Bertie, the other day, "Why do they call a ship a she?" "Because, my son, she is always on the lookout for the buoys."

---

A RULE OF WHIST.

The swell had lightly answered,
As he donned his new array,
"I'll step outside and change this bill."
When the tailor asked for pay.

The tailor feared his habit was
From his creditors to scoot;
He seized his hat and sagely said,
"Methinks I'll 'follow suit.'"

---Ex.

Blest be the tie that binds
The collar to my shirt.
With gorgeous silken front it hides
At least a week of dirt.

---Yale Record.

The Father asked, "How have you done
In mastering ancient lore?"
"I did so well," replied the son,
"They gave me an encore;
The Faculty like me and hold me so dear,
They make me repeat my Freshman year."

---Trinity Tablet.

A sophomore bold and careless and gay,
One afternoon of a winter day,
Fixed himself up and went to a play.
It was Richard III., and a matinee.

The sophomore sat in the front parquet,
All was serene as a day in May,
Until King Richard began to pray,
"A horse! a horse!" In a faithful way,
When the sophomore sprang from his seat, they say,
And cried, the poor king's fears to allay,
"I'll get you a horse without delay,
I know how it is—I have felt that way."

---Wabash.

---

A RETROGRESSION.

It required four years of my early youth
To master my A B C;
But now it is worse, for to tell you the truth,
It requires four years for A. B.
C. L. GORHAM & CO.,
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And Blank Book Manufacturer.

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(Successor to J. O. White),
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