FOOT-BALL NUMBER.

CONTENTS.

Editorials ................................ 139 '95 vs. H. M. A. ......................... 148
Review of Foot-ball ................... 141 Y. M. C. A. .............................. 148
Class Championship .................. 146 More Novel Ads. ......................... 149
A Challenge ............................. 147 Technicalities ............................ 149
Slide Meters vs. Wheatstones ....... 147

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PROCTOR, ’94.
ALLEN, ’94.

PROCTOR, ’94.
ALLEN, ’94.

W. P. I. FOOT-BALL TEAM, 1893.
The following winter was a time of long deliberation and discussion as to what should be done the next year concerning foot-ball. Many were the theories that were advanced for the elevation of the game but all were rejected save one, the one which we have since followed. Several of the advocates of different theories even ventured to state their arguments in the columns of this paper, hoping thereby to rouse in all a greater desire for the game. One "crank" even went so far as to demand the abolition of base-ball in the spring, and instead of it devoting the time to foot-ball. This of course excited the base-ball men to a high degree, and they were quick to answer that base-ball was on a firmer basis than foot-ball and that it would stay. Editors of this paper disagreed on the subject and editorials at one time favored the "Foot-Ball Crank’s" theory, and at another time frowned severely upon it. But base-ball stayed and flourished in the spring, and in the fall foot-ball was started and received an impulse from which it has not yet recovered and from which we hope it never will recover. To the discussions and disagreements of that winter we owe our present standing in the game of foot-ball. We have the cranks of that time to thank that we can boast each year of the best foot-ball team that ever wore the red W.

The team in the fall of 1891, was a good one for a starter. Much interest in foot-ball was shown by all students; so much so that the Foot-Ball Association was formed, the Athletic Association voted to give up the annual fall handicap sports, and the Tennis Association even agreed to hold no
tournament—all to aid foot-ball. And yet not a game was won. But the time had at last come when the Academy could no longer crow over us, and although we were really defeated yet if the game had been played to a finish with impartial umpiring, we would undoubtedly have had a victory recorded. The game with Holy Cross resulted in a tie and this and the Academy game were the nearest the team came to winning.

The business part was managed in fine shape and a good balance was passed over to the next treasurer.

A year ago the greatest advance of all was made, although it was impossible to get a coach until very late in the season. The mistakes of the preceding year were carefully avoided and a team was obtained, the equal of which, it was thought, could not again be produced, as a large part of the players were Seniors and their withdrawal left big gaps to fill. The team improved with each game, and we finally had the honor of defeating Brown four to nothing—a defeat which made them very sore and for which they have since wished to atone by playing as roughly as possible when they line up against the Tech. The Academy, with good prudence, refused all applications for a game, and the wish to rub it into the boys who used to beat us went by ungranted.

And now we come to the present season and we think enough has been said of it without more expressions of thought on our part. We have tasted the delights of victory and we have suffered the excruciating tortures of ignominious defeat. We have made mistakes and we hope that others will profit by them as each year one team profits by the errors of those who went before.

And now a word about next year. Three years ago it was stated that it took at least three years to make a team and this we see has been fully demonstrated. Each team since 1890 has been superior to the one which went before, and there is every indication that next year will see a team even better than the one of this year.

The final game in the series for the class championship aroused more excitement and interest than has heretofore been shown in class games. The game in itself was not a very good exhibition of the scientific article, but for hard work on the part of all the participants it would be difficult to beat. The result of the game puts Ninety-five in possession of the coveted championship, although there is much doubt of their ability to defeat Ninety-six. They would, however, be justified in refusing to play Ninety-six, but it seems to us that the honor of being called champions would be only an empty one when in one's heart it is felt that there is another class team that would possibly take away that title if it had a chance.

It is undoubtedly true that both Ninety-six and Ninety-seven entered into the class games greatly handicapped and having the disadvantage of no management. The games that were played with these teams did not, therefore, represent the classes as they should have done, had more time been allowed them for organization. These two classes under such conditions should have been favored instead of handicapped and hence it seems that they ought to be given another chance at the championship.

From the current number of the University Magazine we clip the following item:

"Both the Worcester and Massachusetts Institutes of Technology deserve the greatest credit for a uniformly good showing which they made in foo-ball. Their Faculties are opposed to athletics, and when it is considered that the gifted athletes of both Universities think nothing of carrying thirty hours per week of school work, in addition to their training, the success they have attained under the circumstances is truly remarkable."
REVIEW OF FOOT-BALL.

Briefly reviewing the work done by the team this fall, we find seven games have been played, resulting in two victories, four defeats and a tie. In three of the games that were lost, it was never expected that the eleven could win. But in the fourth game, notably with the team representing the Massachusetts Institute of Technology, the eleven should have given the Boston men a hard game instead of allowing them to score whenever they so desired.

But hard and conscientious practice after that defeat improved the team immensely, so that, when Amherst was played, the eleven was in the best condition of the season. The second game with Trinity was also won by superior work. It is everyone's opinion that, if it had not been deemed advisable to close the season so early, the eleven would have squared accounts with M. I. T. Certain it is, on the form shown by Tech in the last two games, that Boston Tech would have had no easy time of it.

It is greatly to be regretted that it was necessary to cancel two of the games scheduled, namely the return game at Brown and the Tufts game. The cancellation of these games was caused, not through fear of defeat, but owing to the crippled condition of the eleven at that time.

Two different men have coached the team this fall. The first man, although himself a good player, as evinced by his recent work on the Phillips Exeter team, was of little value as a coach. The second coach was a Harvard man who played at Springfield two years ago. Under his instruction the team improved, but there were not sufficient funds in the treasury to warrant the expense of his services.

The absence of a training-table has made itself apparent many times during the season just past. Many men on the team made no pretense of keeping in any sort of training. For this they should be severely criticised. It is absolutely impossible for a man to play good foot-ball and at the same time to do no training.

It is a fact to be regretted that some of the best players at the Institute refuse, for some reason or other, to play. For example, there are two heavy men here, who are excellent halves, both good tacklers and ground gainers, but they could not be persuaded to come out more than a few times during the season. They have both played before on a strong team and could easily have made the 'Varsity this year had they so desired. It seems that men who can play and do not, and having at the same time no good reason to offer, are not doing all they should for athletics at the Institute.

In the matter of practice the men have been most faithful. Every man, with few exceptions, has been out to practice every night that there was any. When it is considered that the teams that we play against get one or two hours' practice daily to our one-half or, at most, three-quarters of an hour's practice, it is easily seen how essential it is that every man be out every night.

As regards the management of the team while in the field much might be said. In the first place too much talking and kicking is indulged in by members of the team other than the captain. This should not be so. Again the plays have not always been used with the best judgment. Centre plays have been used almost entirely and these have at times been of the most value. But when we run up against a team like Brown, whose line is almost impregnable, is it not quite as well to attempt end plays?

The manager of the team has done excellent work. The finances of the association are now on a solid basis, this year's eleven having more than paid expenses.

Having thus reviewed the work of the team during the season just closed, let us now for a moment consider the prospects for next year's eleven. They seem to be most bright. At present no reason can be found why next year's team should be not more successful than that of the present season, which in turn has been an improvement over last year's eleven. But few of the players will be graduated next year, therefore a strong nucleus will remain about which to build next year's eleven. If work is commenced early in the fall, a good coach obtained and a training-table maintained, while the eleven may not be equal to the team of '87,—that went through the season without losing a game, only having a single touchdown scored against them, while they scored 162 points against their opponents, all of whom were good teams,—it is difficult to see why it should not be an honor to the Institute whose name it bears.

How it was Done.

The foot-ball season of '93 is a thing of the past, in so far as we are concerned. The season, considered as a whole and in comparison with the work of the past few years, has been a success. But should we not have done even still better?

At the opening of the Fall term every indication pointed to a most successful season. And these indications have been to a great extent verified. The management had secured the Oval for the games that had been arranged with many of the leading college teams in New
England. Strong elevens were thus to be played in the belief that the student body and general public would prefer to see games with such teams even though we meet with defeat at their hands than to witness matches with preparatory and academic teams. That this policy has been a wise one the attendance at the games will attest. The students themselves were taking great interest in the game and had generously subscribed to the support of the team. The eleven, although light in weight, was made up of men all of whom had had experience in football. The team was given good practice by the second eleven that came out every night solely for the sake of the Institute. For this, the second eleven deserve much credit.

But two things were lacking to the highest success of the team, namely, the presence of a good coach and the maintenance of a training-table.

Such was the condition of affairs at the opening of the season.

The first game of the season was played at the Oval on Saturday, Sept. 23, with the eleven representing Trinity. The line-up of Tech at the start was, Ware and Harris, '94, ends. Lathrop and Durand tackles, Brigham and Brooks guards, Boyden centre, Chase quarter, Allen and Zaeder halves, Nelson fullback. The game resulted in a draw, the score being 16 to 16. The first touchdown was made by Tech in less than a minute owing to a fumble by Trinity on the opening V. In the second half Cunningham was substituted for Harris and Arnold took Zaeder's place. The showing made by Tech in this game was a surprise to many, and did much towards exciting interest among the students. The Spy said in reference to the game, "In playing a tie game with Trinity the Tech boys have begun the season gloriously."

The second game was with Amherst Aggie and was played on the following Saturday. A few changes had been made in the team since the Trinity game. Harris, '96, played right end, Burdick at guard took the place of Brooks, who went to left tackle.

Neither side scored in the first half, but in the second half Tech scored 16 points, while the Amherst men failed to score. The blocking of Aggie was excellent, causing Tech much trouble in breaking up the interference. In the first half our team directed its attacks at the Aggie centre but they were unavailing. In the last part of the game end plays were used by Tech with better success. Allen made long runs aided by Zaeder, whose superb blocking was a feature of the game.

We met with our first defeat in the hands of Brown, on October 7. The score was 30 to 0. It was hardly to be expected that we could win against a team of such beefy and experienced players. But Tech played a plucky game and kept Brown working all the time. Tech had the ball at the start and by using the split V a touchdown was scored before the ball was downed. This sent joy and hope into the heart of every Tech present. But the referee, William Odlin, by some rule, as yet unknown to the foot-ball world, said that the ball had not been put in play properly and would not allow the touchdown. His work throughout the game was open to severe criticism. All our plays were directed against the Brown line, but we were unable to get through owing to the weight of the Brown men. The blocking of the Brown team was excellent. Brown as usual played a rough and slugging game.

The first out of town game was played on October 8th with the Williams eleven. Our team was in a crippled condition before starting, both Brigham and Durand having been injured in practice the preceding afternoon. This necessitated the playing of two new men who, although playing well, could not be expected to fill the positions as well as the regular players. We were especially unfortunate in having men injured during the game. Fourteen Tech men took part in the game, and even then it was found necessary to borrow a Williams man to play the last part of the time. Williams piled up 66 points on us, by far the biggest score made against us this year. The team was splendidly treated by the Williams men.

On October 21, Tech played the M. I. T. eleven. Their team was one of our own weight and a good game should have resulted. But this was not the case. We played an extremely poor game, our tackling being wretched. Every one on the team had an off day and as a result the M. I. T. team scored 40 points against us.

The next game was with Amherst Varsity at Amherst on Monday, October 30th. The practice which we had done during the preceding week showed plainly in this game. Amherst expected a walkover, but this was not the case. Although the score was 34 to 4 in favor of Amherst, the game was stubbornly contested. The ball was in our possession fully three-quarters of the time. Against Amherst we undoubtedly put up the best game of the season.

The season closed with a game with Trinity at Hartford on November 4th.

We defeated them, the score being 10 to 0. The whole game was played in the rain, consequently the ball was slippery which caused both sides to fumble considerably. Here the work of our backs was excellent, their quick
starting counting for much owing to the slippery condition of the field.

The men who have played on the team this season, together with the positions they filled and the number of times they played are as follows:

- Allen, h. b., 7
- Arnold, h. b., f. b., 5
- Boyd, centre, 7
- Brigham, guard, 6
- Brooks, r. g., l. t., 7
- Burdick, r. g., 1
- Chase, q. b., 4
- Cunningham, r.e., f.b., 4
- Durand, r. t., 7
- Harrington, l. t., 1
- Harris, 94, r. e., 1
- Morse, l. t., 1
- Leland, l. t., 1
- Mayo, f. b., h. b., 2
- Nelson, f.b., h.b., l.t., 7
- Proctor, l. t., 7
- Ware, l. e., 7
- Warren, q. b., 3
- Zader, h. b., 5

Who Did It.

E. Walter Davenport, '94, who has acted as manager of the foot-ball team during the past season, was born in Hopedale, Nov. 20th, 1872. He entered the public schools of South Framingham and passed through the successive grades with credit, and was graduated from the high school in the class of 1891. Here he had the distinction of being the only president of his class. In the spring of 1891 he entered the class of 1894 of the Worcester Polytechnic Institute. In the fall of the same year Mr. Davenport's merit secured him an election as editor of the WPI. From March, 1892, he served as assistant editor of the Institute paper until March, 1893. At that time he was chosen editor-in-chief of the WPI, and was also elected manager of the Institute foot-ball team. At the opening of the fall term, Mr. Davenport resigned his position as editor-in-chief of the WPI in order to be able to give his whole attention to the foot-ball team. As a manager, he has done everything possible to give the Institute a good foot-ball team. The eleven has had better financial backing and better coaching than any previous team. The action of the management in arranging games with only college elevens has met with universal approval, and has placed foot-ball on a higher plane at the Tech, for while some of the defeats may have been severe, there is the satisfaction left that they are administered by college, and not by preparatory school teams, and victories over such elevens, are correspondingly gratifying. Mr. Davenport's activity has manifested itself in many directions. He is one of the best cross-country runners in the Institute, and without training has always scored in the first six. At present he is president of the class of '94.

Captain Warren E. Brooks was born in Medford, Dec. 17th, 1871. He attended the public schools of that town, and later those of Boston.

At the age of eighteen he entered the Massachusetts Institute of Technology and followed the course of Mechanical Engineering for two years. Here he took an active part in athletics, and was on his class base-ball nine, and was a substitute on the M. I. T. eleven. In the fall of 1892 he entered the Civil Engineering department of the WPI in the class of '94. Although a stranger, he entered readily into the spirit of athletics at the Institute, and was soon found playing right-guard on the Institute eleven. He played the entire season and won an enviable reputation as a steady, conscientious player and a sure ground gainer. This fall again found him on the foot-ball field and, after Captain Chase's resignation, was elected captain. In his new position, Captain Brooks worked hard for the success of the eleven and, though at one time the team seemed to be playing in hard luck, it finally shook off the spell and played the last two games in the best form of the season. During the early part of the season, many men played temporarily, who were not fitted for the eleven, but later the choice of good men and the effect of playing them together day after day produced a winning team. During the past season, Captain Brooks has not allowed his duties as captain to detract from his own playing and has put up his usual strong game at right-guard. He is 5 feet 9½ inches in height and, in his foot-ball suit, weighs 180 lbs.

M. Clifford Allen was born at Yarmouth, Nova Scotia, in 1873, and has since lived there. During the first fall of his course at the Tech foot-ball revived, after a living death of about two years, with Allen for one half-back. Since then he has played every season. In foot-ball togs his height is five feet and seven inches, weight, one hundred and fifty-one pounds. He has been captain of the varsity team, either the whole or part of every season, except the first, and has always played behind the line. Some of his long runs have been almost phenomenal. The longest of this season being in the game with the Amherst Aggies, when he ran nearly half the length of the field. Being a Senior he will probably play no more on the Tech team.

Bertram H. Arnold, substitute full-back, hails from the "Land of steady habits," his home being in Norwich, Ct. He is 19 years of age, weighs about 135 lbs., and stands 5 ft. 10¼ inches in height. He is a member of the freshman class. His experience at foot-ball was gained at Norwich Academy, where he played full-back on the regular eleven for three years. He is quick to start, and can see a hole in the line better than almost any man on the team. On
defensive he is one of the surest tackles on the
team, tackling low and hard, and seldom failing
to get his man. He is handicapped by his light-
ness in weight, and this fact alone prevented him
from getting a permanent position on the team.
He is a hard worker, plays a clean game and will
not give up at trifling injuries, but continues to
play while there is need of his services.

Harry C. Boyden was born at Readville,
Mass., in 1873. During most of his life, how-
ever, he has lived in Worcester. His foot-ball
tendencies became known quite soon after his
entrance into college. He never played regu-
larly on the 'varsity team until this fall, when
he occupied the responsible position of centre.
As he dresses for a game his height is six feet
and three inches, weight about one hundred and
eighty pounds. During the season of 1893 he
has had some heavy men to play against but
has almost without exception held his own, and
in many cases done more. As he is a member
of the Senior class this will be his last season
at the Tech.

Francis H. Brigham, '95, was born in Hub-
bardston, Mass., 20 years ago; brought up in
the country and acquainted with the hard work
which falls to every lad on a farm, he acquired a
magnificent physique, without which our team
would be seriously crippled. Brigham stands 6
feet 2 inches high, and weighs 195 lbs. His
first venture at foot-ball was made last season
when he played left-guard on the Tech team; he
has played this position in every game this
season, with one exception. Brigham plays a
noticeably clean game and cannot be accused of
underhanded dealings. His athletic ability is not
confined to foot-ball alone, in track and field
events he has proved himself to be a strong
competitor.

Merril B. Chase, by far the best quarter-back
and most efficient player that the school has
produced for the last five or six years, is a
modest young man, 21 years of age, slight in
appearance but is all there when called upon.
He stands 5 feet 8½ inches in his stockings and
weighs 136 pounds. The effective points of
Chase's playing are his head work, unerring eye
and indomitable pluck.

He has the most important of all qualities for
playing quarter-back, and that is, according to
Camp, the power of obtaining the confidence of
his halves. Allen said that when his play was
called he could get the ball with his eyes shut,
because he knew just how, when and where it
was coming.

Chase attended Milton Academy, where he
played half-back for one year. When the sea-
son of foot-ball opened in the fall of '91 Chase
was overlooked in the make-up of the class
teams of '94, but never had a close competitor
for the 'varsity, on which he continued to play
until the middle of the present season, when he
was obliged to resign his position of captain of
the team. His place remained unfilled. It was
a hard blow for the team, his resigning, as he
was undoubtedly the best man in school for the
place.

Chase's play was to be relied upon and his in-
play always called forth the applause of the
audience. He tackles low and sure, and al-
though he rarely talked on the subject he knew
the game perfectly.

It is needless to say that we all regret losing
him from the teams to come, but sincerely hope
that subsequent classes will endeavor to fill up
the aching void.

William H. Cunningham, '96, was born in
Worcester, March 17, 1873. He attended the
public schools in this city, including the Worces-
ter High. While there he was prominent in
athletics, taking places in the half and mile run
at High School field sports, and playing right-
end on the High School foot-ball team during
the fall of 1891. He graduated in the class of
'92, but went back to the English High for a six
months post-graduate course before entering
the Tech. During the foot-ball season of 1892 he
played right half-back and captained the High
School team. Since entering the Institute he
has been prominent in athletics, being a member
of the team representing the Tech in the N. E.
I. A. A. sports in the spring of 1893, and
also being athletic director for Ninety-six. He
is at present captain of the Sophomore foot-ball
team. His work with the 'varsity team has been
constant and faithful. He played right-end in
the first game this fall, and in the last three
games has played right half-back in the offe-
sive play, and full-back in the defensive. He
weighs 145 pounds, is a sure tackler and a good
ground gainer.

Mr. A. H. Durand, W. P. I.'s right tackle,
is too well known among 'Tech" students to
need any introduction, and in our limited space
but a brief summary of his good work can be
given. Mr. Durand, the best player the class
of '97 has furnished the 'varsity eleven, is a
man 23 years of age, 5 feet 7½ inches in height,
well built and, when in playing condition,
weighs about 156 pounds. Before coming to
the Institute, he had won for himself quite a
reputation as a foot-ball player at the Worcester
Academy, having played with that team three
years. Two years he played left guard and one
year he played right tackle, which position he
also played at the Institute the present season.
While at the Academy he was coached by such men as Stone of Andover, and John Cranston of Harvard, and it is this training that enables him to play so effectively against stronger and heavier men. In the season of '91 he played on the Academy team, which had the novelty of not being beaten. He played in every game played by the Academy team while he was a member of it, and this season has played every time the Institute team has played, not being laid off once. The entire season he has played a remarkably good game, his tackling being the feature of several games.

The position of right end on our team is well filled by Chas. R. Harris, '96. Harris comes here from the Clinton High School and keeps up the reputation of that school from an educational standpoint by proving himself a good scholar. Besides being a good foot-ball player Harris does well at most other athletic games, particularly baseball. He showed such skill at this game last season that he was placed on the Institute team as third baseman and later as left fielder. He never had a foot-ball suit on, however, till he played tackle in the class game at the beginning of this term. He showed up so well in this game that he was selected to practice for the position of right end on the "Tech" team, which was being made up at that time. Since that he has played in every game this season, and in each one his tackling and interference have been remarkably good. His tackling is especially fine, and it is doubtful if there is a man in the Institute who can equal him in this respect. He also runs well, and the man who wishes to get around the right end has to be able to give Harris a wide berth in order to avoid a sudden stop.

Harris is not a very heavy man, weighing just 150 pounds, but is extremely active and wiry. He is 5 feet 10 inches in height, and is 22 years of age.

Theodore Lamson was born in Worcester, June 14th, 1875. He lived in this city until ten years of age, and then with his family removed to St. Johnsbury, Vt. After completing the course in the public schools, he attended the Friends’ School at Providence, R. I., for two years. While here he played first-base on the ball team. After leaving the Friends’ School he attended St. Johnsbury Academy for one year, where he also played first-base on the ball team. He has never played foot-ball before this fall, but nevertheless he plays the position of right-guard very well. He weighs 175 pounds, and is six feet one inch tall. The experience gained this season, together with his build and strength, will make him a valuable man another year.

C. B. Lathrop was born at Norwich, Conn., March 3rd, 1873. He attended the public schools of Norwich, and the Norwich Free Academy in the class of 1893. He was prominent in athletics while there, playing for two years on the foot-ball team as quarter-back and half-back. He also pitched for the Norwich Free Academy ball nine for one year and held several offices in the athletic associations. He is a Freshman at the Institute, but made the team the first game played this fall. He weighs 150 pounds, and is a good all-around player. He has played the position of left-tackle one game, but has either played or substituted quarter-back in the other games played this season.

Jas. B. Mayo, '96, is one of the strongest supporters of the team. During the past season, however, he has only played in two games, but in each of these, and also in practice, he has played with such vim and spirit that many competent judges have thought him very worthy of a position as half-back on the first eleven, notwithstanding the fact that his position was already well filled. Mayo can break through a line or wedge with any man in the Tech, and once through, may be depended on to bring his men down if good tackling will do it. When playing on the offensive, he runs well with the ball and is a very hard man to stop. Mayo comes here from Cushing Academy, where he received his foot-ball training, having played on the Academy team as half-back. Besides being an ardent foot-ball man, he has played base-ball a good deal and was captain of the Cushing Academy nine. He plays tennis excellently, and is also good at field sports, having carried off four first, three second, and one third prize at the Cushing Academy field sports. At Cushing Academy, Mayo was president of the Athletic Association, and held a number of other offices in that school, showing that he was very popular among the students. His home is in Turner’s Falls, Mass., where he was born in 1873. He is 5 feet 7 inches in height, is well proportioned throughout, and weighs 156 lbs.

T. Leverett Nelson, full-back, is a Freshman in the Institute, but not in foot-ball. He is 20 years of age, stands 5 feet 11 inches in height, and weighs 153 lbs., in foot-ball costume. He received his first lessons in foot-ball at the Worcester High School, where he played full-back for four years, one year as captain. During his stay at the High School the team developed from a second rate to a first class preparatory school team, and "Levie's" work was improved constantly until he became one of the best men on the team. "Levie" started in this season to try for the Institute team and succeeded in
getting the full-back's position, beating out several strong rivals for the position. At first glance in practice, "Levie" appears sleepy, but in the game, he is all life and vigor, and his work on both offensive and defensive is good. He hits the line hard, is the best punter on the team, and follows his interference well.

Charles A. Proctor, who has played left-tackle during the latter part of the season, is a native of Spencer. He was graduated from the High School of that town and decided to enter the Tech. Since his entrance in the fall of 1891, he has always taken an active interest in athletics. He played in the '94 class eleven and on the Institute eleven in the fall of 1891. In the spring of 1892, he won the standing broad and standing high jumps and took second in throwing the hammer at the Institute sports and won the standing broad jump at the Intercollegiate games. In the fall of that year, a bad ankle kept him from the foot-ball field. In the spring meet of the W. P. I., Mr. Proctor won second place in the running broad and high jumps. He also played on the '94 base-ball team at first base. During the first part of the season, he again hurt his ankle and had to keep from the field several weeks. Later, however, he came out and put up such a strong game that he was tried at left-tackle. Here he strengthened a place that had been weak the whole season and has been kept there since. Mr. Proctor is about 6 feet in height and weighs 178 pounds.

Charles P. Ware, of Bangor, Maine, plays left end. He is 21 years old, 6 ft. 1 in. tall, and weighs, when in good condition, 160 pounds. He received his first training at Phillips Andover, where he played with Hickey, captain at Yale; Hopkins, captain of Brown; Millard and other well known players. In '91 he went to Worcester Academy, and while there played right tackle on the 'Varsity. He has played in his present position during the past two seasons. He is a member of the W P I. board.

Alba H. Warren, '95, was born in Worcester, is 19 years old, 5 feet 5½ inches in height, weighs 130 pounds. He attended the Worcester High School, and played quarter-back for four seasons on the High School eleven. He injured his ankle last season and was unable to take an active part in foot-ball at the Institute. Captain Brooks hesitated about playing him at quarter this year on account of his inferior weight, he was, however, given a chance in several games, and did excellent work at quarter. Warren is one of the most active men on the team, and plays with a snap that several other members would do well to copy.

Frederick J. Zaeder, '96, is nineteen years of age, weighs 165 lbs. and is five feet ten inches tall. He came to the Tech from the High School where, in 1891, he first learned the game of foot-ball. He played full-back on the team of that year, which was one of the best that the High School has ever produced. His offensive work was greatly commented upon, and when on the defensive a man was indeed a star who succeeded in passing him. While on the Tech team he filled the position of half-back, where he distinguished himself principally in aiding his fellow backs by excellent blocking. Fritz always had a great aversion to practice, and this is his greatest fault. He will undoubtedly be one of the cracks to maintain the honor of the W. P. I. next year.

CLASS CHAMPIONSHIP FOOT-BALL.

Last Saturday at the Oval the final game in the class championship series was played. The Seniors had defeated the Sophomores and the Juniors had defeated the Freshmen earlier in the season, so that the final struggle lay between the Seniors and the Juniors. The Seniors had Brooks, Boyd, Burdick, Allen, and Chase of the 'varsity team, while the Juniors had only two 'varsity men, Brigham and Warren. Consequently the Seniors entertained high hopes of winning. The Juniors said nothing, but put in solid hours of faithful practice, and therefore by diligently plugging at '94's weak spots in the line, carried off the game.

The Seniors before the game were commenting on the strength of their centre men, and they concluded that it would be a very difficult matter for the Juniors to even get the ball in play on account of the breaking through the centre, but it was very noticeable all through the game that the Juniors put the ball in play cleanly nearly every time, while the Seniors were handicapped all the way through by fumbling in getting the ball back.

The game was very even all the way, and was only won by a narrow margin. Yet, the Juniors had the ball in their opponents' territory three-quarters of the time, and in the first half only failed to score by the narrowest kind of a margin, time being called with the ball only two feet from the Seniors' goal line.

The game developed into a rather rough exhibition at times, particularly so in the second half.

The Juniors made most of their gains through the line, especially through the tackles, which were the weak spots in the Seniors' line. The criss-cross was worked successfully several times, Warren making substantial gains nearly every time.
The Seniors also worked the line nearly all the time, Allen finding it useless to try the Juniors' strong ends.

Harris made his distance nearly every time he was sent with the ball and tackled well, as did Chase.

The teams line-up was as follows:

**'95.**
- King
- Killam
- H. S. Davis
- Brigham
- Ford
- G. P. Davis
- Morse
- Warren
- Stone
- Martin
- Harrington (Capt.)

**'94.**
- Whipple
- McFarland
- Nye
- Brooks (Capt.)
- Boydend
- Burdick
- Sawy-r.
- Eastman
- Gallagher
- Harris
- Allen
- Chase
- Heads

The Juniors won the toss and took the ball. Harrington had the ball in the V and made 8 yards. Martin made 12 yards around the end and the ball went to the Seniors on their 20-yard line on four downs.

Allen then made a good gain but the ball was then lost on a fumble, G. P. Davis falling on the ball. The ball was advanced to '94's 15-yard line and there lost on a fumble. After a few short gains '95 again secured the ball on a fumble, Stone dropping on it. The ball was rushed back and forth on '94's 15-yard line for some time, but the Juniors finally carried it by short rushes to '94's 5-yard line. Harrington was sent at the centre but was downed only 2 feet from the goal line just as time was called.

Score—Seniors, 0; Juniors, 0.

In the second half '94 had the ball, they made a few short gains and then '95 secured the ball on downs on their own 35-yard line. Here the Juniors commenced to play and by short rushes without once losing the ball they scored a touchdown.

Warren made 8 yards on the criss-cross, Stone banged the line for 4 and 5 yards respectively, Killam smashed through tackle for good gains. Then the Pennsylvania mass play through tackle was tried for 8 yards.

Brigham gained 5 yards and the ball was on the Seniors' 5-yard line, Harrington tried the centre but it was too strong, on the next play, however, Martin carried the ball over for a touchdown, Stone kicked the goal.

Score—Seniors, 0; Juniors, 6.

'94 made 10 yards on the V, Harris smashed through the centre for 5 yards, Allen made a short gain on the next play, Killam broke through and tackled Allen with a loss of 5 yards. Killam was hurt and H. S. Davis took his place.

On the very next play Davis broke through and tackled Brooks for a loss of 5 yards and time was then called.

For the winners, Warren, Stone, Martin, Killam, Harrington and Leland all made good gains. G. P. Davis who had a very bad ankle when he went into the game, put up a fine game at guard, giving his opponent all he wanted to attend to.

Morse and King showed up finely at end, and Ford and "Brig." gave a good account of themselves.

For '94, Brooks put up a fine game at guard. Harris put up a good game behind the line, Allen tried to do too much but he worked hard and made some good gains. Whipple and Eastman at the ends played with much vigor and won great applause.

Chase, Burdick and Boydend were as reliable as ever and but for the weakness at tackle the result might have been different.

**A CHALLENGE.**

Since the first game for the Tech championship was played and '94 defeated the few '96 players who represented their class, '96 has been anxiously awaiting an opportunity to challenge the team which won the final game.

Consequently the following challenge was given by '95 when it was known that they were the victors:

"The class of '96 hereby challenges the class of '95 to a game of football. This game is not to be played for the Tech championship, but simply to justify '96's team which was not by any means a representative one in the game with '94. In case of '95's failure to accept this challenge, '96 will necessarily conclude that '95 is not prepared to defend her assumed superiority over '96 in football.

"Signed,

M. P. WHITTALL,
"Manager."

It is doubtful, however, if '95 will accept this challenge, for '96 has a very strong team, and '95 realizes that it would detract greatly from their glory if defeated.

**SLIDE METERS vs. WHEATSTONES.**

A very interesting and highly instructive game of football was played on Dewey's Field Thursday morning, Nov. 9, between the Slide Meters and the Wheatstones, two teams composed of members of the electrical engineering division from the Senior class. Through the kindness of Prof. Kimball, who being an ardent lover of the sport, (kindly) granted them the hour wherein might be, and in reality proved to be, developed such connoisseurs of the game that
vacant positions on '94's 'varsity were speedily filled by men who did themselves and their class honor in the championship game with '95 which they ('94) did not win.

The Wheatstones opened the game with a V, Harris carrying the ball. Gain 10 yds. At this point Soars put the ball back a few yards while the others were looking for a few hairs which King missed from his mustache. Time was called by the referee and in the meanwhile the Slide Meters devised an elaborate code of signals. After several intricate plays the ball reached the 25-yard line. Grout then took the ball and by vigorous use of his heels managed to drop on the ball squarely behind the goal posts. Harris then made an attempt at a goal, missing by about ten yards. He gave as his reason for not kicking the goal that the posts were about 10 yards out of place.

The Slide Meters then started with a flying wedge. All would have been well and Dwinnell would have scored but that Soars, becoming excited, tackled him forgetting which side he was on. On the next run Sawyer in impinging on Harris dropped the ball and Gordon picked it up and ran 40 yards. But the referee claimed he did not see it as he was working out a problem which was,—how far Sawyer would have knocked Harris if the coefficient of friction were .064. Soars tried to redeem himself by kicking a goal from the centre of the field, but Burt got it in the neck but managed to obtain the ball. Time was called for Soars to recover from the effects of kicking and for O'Connell to take off his necktie.

Wheatstones now proceeded to buck and finally bucked Harris over the line for a touchdown. Slide Meters now opened with another De Land trick, going as far back as the goal posts in order to gain the proper momentum, which was worked out by Dwinnell a few minutes before. Dwinnell took the spheron and tossed it serenely over into the next lot, giving as his reason that it was a new trick invented by himself, which he thought would so rattle and paralyze his opponents that the ball could be easily obtained again and a touchdown made. The trick did not work as the players had not yet sufficient experience in the game to get paralyzed. Time was again taken out while O'Connell took off his collar and vest. After another touchdown by the Wheatstones from which Harris failed to kick goal because the cross bar was too high, the Slide Meters took the ball into the centre of the field. 

\[ \frac{2 \pi r^2}{d^3}, \tan \theta = 324^\circ \] was the signal for Sawyer to take the ball around the end. But he immediately turned around and ran backward until tackled by the referee who thought he was trying to get away with the ball. But Sawyer gave as his reason for the run that tan. \( \theta \) was a minus quantity and he thought he must lose as much ground as possible.

It may be here observed that the referee would take the plum pudding for a good natured cheater, the only thing to his credit is that he cheated evenly, but it should not be laid against him if he gave more attention to the lady spectators than to the game. As the crippled clock in the tower showed the passage of the hour the game ceased and the weary players—O'Connell "en dishabile" and King with his head on one side, overbalanced by the loss of those hairs—slowly wended their way to the laboratory not much the worse for an hour's fun.

'95 vs. H. M. A.

The Junior class team played a practice game with the eleven representing the Highland Military Academy on Monday afternoon, Oct. 13th. The game was not called until 4.40, therefore it was impossible to play but one twenty-minute half. The game resulted in a victory for '95 by a score of 16 to 6. Hapgood, '95, filled the position of umpire and referee. The line-up of the teams was:

\[ \begin{array}{ll}
'95 & H. M. A. \\
Coburn, & right end, Kearney, \\
Leland, & right tackle, Jones, \\
Smith, & right guard, Bartlett, \\
Ford, & centre, Jacobs, \\
Brigham, & left guard, Warren, \\
Killam, & left tackle, Mende, \\
King, & left end, F. M. Gross, \\
Warren, & quarter, Lawrence, \\
Stone, & \\
Martin, & \\
Harrington, & full, \\
\end{array} \]

Score—'95, 16; H. M. A., 6.

Touchdowns, Leland, 2; Stone, 1; H. E. Gross, 1. Goals from touchdowns, Killam, 2; Perkins, 1. Referee, Hapgood, '95.

Y. M. C. A.

At the meeting of Tuesday last, Mr. Chapman of Central Church, addressed a very attentive and interested audience.

The basis of his address was the example a young man holds up to all about him, using as an illustration the life of Paul. Amongst other things he mentioned the fact that as a young man did not know how or to what extent others would be influenced by his acts, he should always be on the right side and stand up for the right. A fellow may fall, everybody does, but, by rising after his fall, he grows stronger and shows his master on which side he means to stand, thus
helping those who want to stand with him, whereas, if he became discouraged he would not only deprive himself of some privileges and lose his standing among some of his acquaintances, but would discourage others by his example.

These special addresses are very interesting and instructive and the officers of the Association would like to see the room crowded at every meeting.

MORE NOVEL ADS.

A recent article which appeared in the November *Outing* on team racing, and also another article written in the *University Magazine* on college athletics, in both of which the WPI is prominently brought forward, only verifies what was said in a recent issue of this paper under the title of "A Novel Ad."

In brief, the *Outing* says: "Of all the team races of the year none were more exciting than that between the Massachusetts Institute of Technology and the Worcester Polytechnic Institute, at the handicap meeting of the Worcester Athletic Club, Feb. 4th of the present year. The M. I. T. team were ahead until the last relay when Gallagher of the W. P. I. went to the front. He fell, however, on a turn, and Batchelder leaped over him into the lead. Gallagher regained his feet and pluckily sprinted to the front again. At the finish the two were shoulder and shoulder when Batchelder fell beneath the tape and Gallagher breasted it only to fall beyond, the winner."

The *University Magazine* in its review of college athletics says that "For its size and opportunities, the Worcester Polytechnic Institute, at Worcester, Mass., easily ranks with the best of eastern colleges in general athletics."

Doubtless the writers of the above after seeing the elaborate (?) display of the W. P. I. at the World's Fair this last summer, determined to look us up and find out who and what we are.

But here is the rub. The *University Magazine* is a periodical chronicling everything of interest pertaining to colleges and college students, confining itself in no way to athletics alone, but to the contrary being an impartial reviewer of events and happenings in the college world.

The *Outing* is a monthly magazine of the highest repute, a periodical which finds its way into every library in the country, and whose contents are read more by young men than the contents of any other of the monthly magazines.

Certainly, then, we can only wonder when we see how much the Institute is being advertised by reason of her athletic abilities why it is that those most directly concerned do not give their approval and support and co-operation to athletic sports.

**TECHNICALITIES.**

The miner split the rock in two,
Then to its fragments spoke.
Said he to it, "Have you no gold?"
"Nay," said the rock, "I'm broke."
—School Record.

"Wanted: A popular Political Economy."
Review of Reviews.
So say the rest of us.

President Fuller, Nov. 17, gave in the Conant course of lectures at Sterling, a lecture on the Natural Resources of the Western United States.

Translations in Junior German:—"Und du setztet mi-h nieder und küsstest mich und ich verbreht es?"— "and you picked me up and kissed me, and I returned it."

"Es trägt sich besser die gleichere Last so."
—"A balanced load is most easily carried."

The Freshman class has organized its orchestra with W. S. Dana as leader, and G. N. Jeppson, business manager. At present they have the following pieces, 1st and 2d violin, cornet, clarinet, flute, piccolo and bass. This is the first class for many years that has been able to form an orchestra composed entirely of class members.

Prof. Gladwin has entertained the Freshman class by divisions at his home on Harvard street, the past three Friday evenings; division C being first entertained, while divisions B and A were entertained on each succeeding Friday evening. The students enjoyed the privilege of looking at his sketch-books and paintings, and at the close of the evening were treated to light refreshments.

Who says foot-ball isn't flourishing at the Tech? Just look at these clippings from newspapers and see who has been playing the game. Here is one from an account of a Clinton game:

"Just before the end of the first half, Howe, W. P. I., '96, was tackled and thrown hard by McPherson. His left arm was dislocated at the elbow. * * * * * Harris, W. P. I., '96, was the life of the Y. M. C. A. team and played a grand game. His tackles were fine, saving several touchdowns and his work in blocking and all around was fine." And again we read that foot-ball is to be introduced into Leicester and in discussing the probabilities we find that "with Wait, Sibley and Grout, who play every day at the Tech, the team would be given a good start." Who isn't a foot-ball player?
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