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Students of Worcester Technical Institute

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We know full well that the subject upon which we intend to say a few words is an extremely delicate one, involving, as it does, the necessity of bringing the Freshman Class, as such, prominently into notice. Our words regarding the matter are, however, written in the kindliest spirit, and with no desire to assume the rôle of dictator, but rather in the hope of benefiting Ninety-Seven, although at first sight our intention may seem to be otherwise. In plain English, the class of Ninety-Seven has refused to support, in the manner she should, the best ball team that has represented the Institute in recent years. The Freshmen have as yet, neither individually, nor as a class, subscribed ten dollars toward its support. We are well aware that many will reply that they do not intend to pay the debts incurred through the mismanagement of others. This reply would have some force if the subscription was solely to pay old debts, but as long as a team that is playing winning ball is in the field, we fail to be much impressed by such an answer to the question, why the members of Ninety-Seven do not support the nine.

It is not alone in base-ball that the Freshmen show little, if any, interest. With regard to the WPI the case is the same, the number of subscribers being far smaller than that of any other class.

We believe such facts are made true by a lack of thought, rather than natural indifference. Now that it has been brought prominently to her notice, we hope that Ninety-Seven will see to it that she takes the interest in the various institutions connected with the Institute that they surely deserve.

It has often been suggested by students and others interested in the Institute that each class should leave behind some token which would be to future classes a reminder of their predecessors. Such an idea seems a good one. To be sure, each class has its class-tree, but the presentation upon Class-Day of some more permanent object would be, it seems, far more satisfactory.

It is at present the custom in a large preparatory school that we now have in mind for each class, upon graduating, to present to the school the bust of some noted man. These busts are placed in conspicuous places in the corridors and halls. Not only is the
appearance of the interior of the buildings thereby greatly enhanced, but each class feels that it is not wholly forgotten in the rush of future classes.

Would not each individual feel better satisfied on Class-Day, if he and his mates, as they were about to leave the Institute, had left behind them some token of their life here? Would not all persons interested in our welfare be pleased to see the corners or walls adorned with the busts or likenesses of illustrious men? Would not their presence cause the student to remember and to study the lives of the men whom they represent, and urge the student on to greater action?

Ninety-Four would do well to think quite seriously of instituting such a beneficial and pleasing custom.

We are fully aware that each editorial board, when it is elected to take the place of the retiring one, begins its labors with the idea and belief that the work of all former boards will be excelled, and that the college paper will be made nearer to the ideal one than it has ever been before. Such resolutions are indeed commendable, but before many issues have appeared it is evident that the board is losing some of its enthusiasm, that it is appreciating the difficulties of the work, and that it is content to keep the paper up to its former standard of excellence, whatever that may have been.

Although having these thoughts clearly in mind, and remembering the excellent productions of some of the former boards, we believe it is no exaggeration to say that the next issue, which will be our Commencement Number and the last one for this year, will be the largest and best ever issued by any W P I board.

Owing to the fact that this year the Aftermath appeared early in the present term, it was of course impossible to have the class-history, class-poem, and other matters pertaining to graduation, and hence of especial interest to the Senior Class, there contained. It is on this account that the Editor intends that the Commencement Number shall contain the addresses, valedictory, baccalaureate sermon, etc., in full, as well as a full account of the graduating exercises, reception and all other news of more than ordinary interest to the Senior Class.

In addition, there will be a full-page cut of the ball-team, that has so far this season been defeated in only two games, and also a review of this season’s work, with short sketch of each player. Each organization connected with the Institute will also be the subject of an article.

In short, the Editor intends that the next number shall be a souvenir one, and one of great interest to every student and alumnus of the Worcester Polytechnic Institute.

The last number for the Institute year of ’93-’4 will be out a few days after Commencement. See that you have one.

THE UNITED STATES NAVAL ACADEMY.

The course at the U. S. Naval Academy is six years, four at the Academy itself and two at sea in the capacity of junior watch officer on a regular cruiser. A cadet also takes three cruises of three months each. These are made on a sailing vessel, and until this year the Constellation was used, in order that seamanship of the old school might be thoroughly taught. Last year the cruise was to the Azore and Madeira Islands and the cadets had to stand quarter-watches and take their turn at the wheel. It is a nice life when the sky is pleasant and when a nice breeze is blowing, but when it becomes squally and rainy then the disagreeable part of the cruise is seen. One of these “practices,” as they are called, are not, as a usual thing, enjoyed by all. It is by no means pleasant to be turned out at one in the night after having been on deck until midnight, in order to rouse up a sheet-chain to hold the ship to her anchorage, or else to reef topsails when it is pouring, and blowing a gale. But there is plenty
of excitement in a life at sea, and this more than makes up for the hard times it is necessary to experience. The cruise lasts from the last of June to the last of August, when the upper classes go on leave until the first of October. The “plebs,” however, are kept at the Academy drilling during the month of September, so that they may be in proper form to go into the battalion on the arrival of the older classes from leave.

The academic year begins on the first of October and lasts until June. At the end of each month examinations are held in each branch on the ground covered during the month. But this is not all. The semi-annual examination takes place in the last week of January and the annuals in the last week in May. As a result of these examinations a good many cadets are found deficient and are dropped or “bilged.” A re-examination is sometimes given in September to a few who are deficient in but one branch and if they pass this they are continued with the class. The recitations are conducted by naval officers who were distinguished for scholarship while at the academy themselves. From six to eight cadets are in a class and recite for an hour, and so each man has to have every lesson, for he is always called on to recite some part of it. The class standing of the cadets is given out at the end of every year.

The cadets are quartered in ten groups of buildings, the Old and the New Quarters. The third class live at the Old and the other three classes at the New Quarters. Two cadets live in a room; they take care of it themselves, putting it in order every day. They alternate as cadet-in-charge of room every week. The cadet-in-charge of room is responsible for everything that happens in the rooms and he is reported for everything that is amiss in the room. The room has to be in regulation order from eight in the morning till six at night. The furniture consists of two iron beds, two chairs—no cushions are allowed in them—two wardrobes, two washstands and a table. No pictures of any one are allowed, and if a fellow has a photograph of any one he has got to keep it out of sight. The rooms are inspected by an officer every morning. The wardrobes are arranged in a prescribed fashion, there being a certain place for every article that is allowed to be kept.

The battalion is divided into four companies and each company into four crews. In the mess-hall a crew occupies a table, there being usually about fourteen men to a crew. A cadet lieutenant-commander is in charge of the battalion, and he lives at Old Quarters in order to keep an eye on the third class in the absence of the officer-in-charge. A cadet lieutenant is in charge of a division. All the cadet officers are first classmen, and they are chosen because of high rank or of marked ability in the handling of men, as shown on their first cruise. An annual prize-drill between the divisions is held, and the rivalry is always very great. A flag is presented to the winning company.

The daily routine is about as follows:—

6 A.M., reveille; 6.35 A.M., breakfast formation, at which the conduct report is read and the battalion inspected; 8 to 12.15 P.M., are recitation and study hours; 12.30 P.M., is dinner formation; 1.50 to 4.00 P.M., are recitation and study hours; 4.10 to 5.30 P.M., is drill period; 6.30 P.M., is supper; 7.30 to 9.30 P.M., is for evening studies; 10 P.M., taps.

The drills are various. During the winter we have fencing, target-practice, rigging loft, signals, gymnasium, etc. During the spring the drills are mostly in seamanship on the Bancroft and Monongahela, or infantry and artillery drills. Saturday forenoons the Bancroft goes out in the bay for target-practice with great guns. The shooting done is usually very fine. There is no sea on, but the shots are fired while passing the target at full speed. The range is usually from one thousand to twelve hundred yards.

Life is not all work here, although it may seem so; the naval cadet has his pleasures as well as a “cit,” and probably enjoys them fully as well. Hops are held every Saturday evening from eight to eleven, in the boat-house. They are always well attended. The floor is the finest and the band is the second best in the United States. The Marine Band is the only one to have won from it in a contest. The officers in the yard entertain a great deal also.

In football the Academy has lately had a splendid team, the great contest of the year being the one with West Point. The Naval Academy has won three out of the four games played between the two academies. The practicing is all done by electric light as it gets dark so soon after drill. In base-ball the Academy does not claim to be at all good. But few men train for it and little interest is taken in the game. The best game this season was with the Yale team when we defeated them by a score of 4 to 3. This was a most unlooked for victory.

The crew is in training now and row every day. The principal race is the one with the University of Pennsylvania crew. Most of the practicing is done before reveille, so little time do they have.

**Ex '95.**

The next number will contain a full-page cut of the base-ball team.
W. P. I. vs. CLINTON-LANCAS TER.

On Memorial Day, the ball team went to Clinton, and there played two games with the Clinton-Lancaster Athletic Association nine. Both games were won easily by Tech, notwithstanding the fact that at one time in the afternoon game it looked as though the home team would be victorious. The Tech team never played better ball than they did on that day, the support given Martin being almost perfect. Martin pitched both games and gave but one man his base on balls in the two games. The afternoon game proved rather disastrous for the Tech players. In the third inning, Knowles, while stealing second, was deliberately run into by Rogers, who played second for the home team, and as a result Knowles' collar-bone was broken in two places, and he was forced to retire. Again in the eighth, Gordon was severely spiked in the palm of the hand, but finished the game out.

THE MORNING GAME.

The morning game was called at 10 o'clock, about three hundred being present. Tech started in to win at the start, and scored in every inning, excepting the second. The first run was made by Philpot, who was given his base on balls and then stole second. Kelley's error of Knowles' grounder advanced him to third and he finally scored on an error by Rogers. In the second inning, no runs were made, but in the third, seven runs were made, principally through the going-to-pieces of the Clinton nine. Incidentally, two two-base hits, three singles and seven stolen bases aided in the run-getting. Zaeder was the first man up in the fourth and got his base on balls, stealing second. Gordon was also given first, while Bunker's hit advanced him to second and sent Zaeder home. Another fumble by Kelley, this time of Cullen's hit, allowed Gordon to score the second run of the inning. Martin made a base-hit and eventually a run, in the fifth. After reaching first, Silk's fumble sent him to second, while Gordon and Zaeder each made singles, thereby sending Martin across the plate. Philpot scored another run in the next inning. He made a hit and reached second on Knowles' sacrifice, while Zaeder's hit was the means by which he scored. Another run was made in the seventh. Bunker got in a single and stole second, went to third on Cullen's sacrifice, and scored on Harris' hit to left. The eighth was productive of four runs, three singles, three errors and three steals, all combining to make the runs possible.

For the Clinton players, but twelve men went to the bat in the first four innings, notwithstanding that two doubles and two singles were made during the four innings. In the fifth, however, Kelley made a two-bagger and stole third, scoring on Fisher's muf of Needham's strike out. Sampson reached first on a scratch hit, stole second and scored on a passed ball. Martin then settled down to work and struck out four men in succession, Fisher dropping Needham's third strike. Silk managed to encircle the bases in the next inning after having been given his base by being hit by the ball. Again in the eighth, Bartlett scored the fourth and last run of the game on three singles and a stolen base.

The score of the game, in detail, was as follows:—

W. P. I.

<table>
<thead>
<tr>
<th>A.B.</th>
<th>R.</th>
<th>B.H.</th>
<th>P.O.</th>
<th>A.</th>
<th>E.</th>
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<tr>
<td>Philpot, 2b</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>5</td>
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<tr>
<td>Knowles, 3b</td>
<td>6</td>
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<td>2</td>
<td>6</td>
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<tr>
<td>Zaeder, 1b</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>8</td>
<td>1</td>
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<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
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<td>1</td>
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CLINTON-LANCAS TER.

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<td>Silk, s. s.</td>
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<td>Bartlett, c. f.</td>
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<td>7</td>
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<td>Kelley, 3b</td>
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<td>Sampson, 1b</td>
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<td>Connoll, c.</td>
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<td>Hayley, l. f.</td>
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<td>Green, p.</td>
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| W. P. I. | Clinton-Lancaster | 1 | 0 | 7 | 3 | 1 | 1 | 1 | 4 | —18 |
|——|——|——|——|——|——|——|——|——|——|——|
| Earned runs, W. P. I. 4; Clinton-Lancaster, 1; two-base hits, Philpot, Martin, Kelley, Needham; sacrifice hits, Cullen, Harris; stolen bases, Philpot 2, Knowles 3, Zaeder 6, Gordon 5, Bunker 2, Cullen, Harris, Silk, Kelley, Sampson, Needham 2; double-play, Martin, Philpot, Zaeder; first base on balls, Philpot 2, Zaeder, Gordon 3, Cullen, Harris, Fisher; hit by a pitched ball, Silk; struck out, Bunker, Needham, Hayley, Green 2; passed balls, Fisher, Connoll 3; wild pitches, Green 1. Time of game, 2 hours 10 minutes. Umpires, Burton and Beyer. |

THE AFTERNOON GAME.

The second game was called at three o'clock in the afternoon and was a decided improvement over the first game in point of interest. Fully five hundred were on the grounds and discussed the chances of victory, the accurate throwing of "those Tech fellows," etc. Not a few, however, believed money talked louder than words, and consequently talked by means of that medi-
um, the accepted odds being two to one in favor of the Tech men. At these odds the town's people made many a bet and for the first few innings those who had thought well of the Clinton nine were happy, but their happiness was doomed to disappointment ere the game was over. The backers of the Clinton nine had based their hopes mainly on the fact that the home team had been changed somewhat and the position of shortstop and pitcher strengthened. These changes however availed but little.

Throughout the game the crowd stood on the side lines on either side of the diamond and certainly could not be said to be indifferent to the Clinton-Lancaster Athletic team, for they almost without exception applauded every decision which enabled a Clinton man to reach a base or a Tech man to be put out, and the opposite was exactly true when the tables were turned. Moreover, they took it upon themselves to act as coaches for the Clinton base-runners, in spite of the protestations of their own players as well as a single representative of the Law and Order League who was on the grounds. The Worcester Tech, however, was out to win and would not be rattled. It was in the third inning of the game that Knowles had his collar-bone broken. Gordon then took his place at third, Beyer going to right, and Harris playing centre.

Space will not allow of an extended account of the game. The summary as appended will give an idea of how the game was won:

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<td>Knowles</td>
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<td><strong>Total</strong></td>
<td>34</td>
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<table>
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<tr>
<th>Clinton-Lancaster</th>
<th>A.B.</th>
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<th>B.H.</th>
<th>P.O.</th>
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<tr>
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<td>0</td>
<td>3</td>
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<tr>
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<td>1</td>
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<tr>
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<td>1</td>
<td>1</td>
<td>0</td>
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<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>34</td>
<td>5</td>
<td>8</td>
<td>24</td>
<td>12</td>
<td>9</td>
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| W. P. I. | 2 | 0 | 0 | 1 | 0 | 6 | 0 | 1 | -10 |
| Clinton-Lancaster | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 0 | -5 |

Earned runs, W. P. I. 11; two-base hits, Silk, Burns; stolen bases, Philpot 2, Zaeder 5, Gordon 4, Bunker 4, Cullen 2, Silk 3, Rogers, Hayley, Bartlett; first base on balls, Beyer, Zaeder, Gordon 3, Bunker, Cullen 2, Rogers; hit by a pitched ball, Hayley; struck out, Beyer, Rogers, Kelley, Sampson, Hayley, Burns; passed balls, Fisher 2, Connoll; wild pitch, Martin. Time of game, 1 hour 50 minutes. Umpires, Bascom and Burton.

**Every student should take home a copy of the Commencement number.**

**W. P. I. vs. CUSHING ACADEMY.**

About twenty-five Tech men, a dozen W. A. C. ticket holders, two reporters, three strangers and a bull dog found their way to the Oval, on Saturday afternoon, May 26th, to witness the game between Tech and Cushing Academy. Manager Gordon had a game arranged with the Mass. Institute of Technology team for that date, but the Boston team recently disbanded, and so the games were cancelled. The management attempted to arrange a game with some strong college team to take its place, but owing to the shortness of time it was found impossible. On the Friday preceding the game, the Cushing Academy nine wrote, saying they were anxious for a game, and so Manager Gordon, although not believing in playing with preparatory school teams, decided to accommodate them, rather than to let the opportunity go by without getting in some practice.

Tech evidently thought at the outset that her opponents were poor players, and that she would have a walkover. It was the entertaining of such ideas that caused Worcester Tech to play very poor, lifeless ball, and indeed to come uncomfortably close to defeat at one time.

Warren played short in place of Cullen, who was unable to play, and the little junior did good work at the bat and on bases. He, however, had little to do in the field. Zaeder's base-running was one of the few redeeming features of the game, he alone stealing nine bases. The base-running of the other Tech players was not what it should have been, Bunker's being especially poor. If the base-runners followed the coaches' advice, and did not decide for themselves as to whether a base could be made without sliding, they would have more stolen bases to their credit.

For the Academy boys, Whittemore was far and away the best of the players. Although he had six passed balls that should not be taken as a standard for judgment, for Collins was extremely wild and in every way a difficult man to catch. Collins has an excellent drop which, if properly used, would be most effective. Worcester Tech scored her runs as follows:
Philpot, the first man up, got his base on called balls, went to second on a passed ball, reached third on Knowles' sacrifice and scored on a wild pitch. In the meantime Zaeder was hit and stole second, reaching third on the wild pitch that allowed Philpot to score. Gordon was given his base on balls and stole second. Both he and Zaeder scored on Bunker's hit. In the third, another run was made. Zaeder reached first on Corwick's muff of his high fly. He stole second and third and was sent in by Gordon, who made a base hit. The fifth saw five more runs added to the Tech score. Warren got in a hit, immediately stealing second, was advanced to third on a passed ball, and scored on Boyd's errors, which also allowed Fisher to reach first. Another error by Boyd, base-hits by Knowles and Zaeder, a wild pitch and a few stolen bases allowed Fisher, Philpot, Knowles and Zaeder to score. Tech made her last run in the eighth inning, Knowles being the one to cross the plate.

Cushing made her first runs in the second on four base-hits and two steals, which together enabled Collins and Litch to score. Smith made a run in the next inning. He was hit and stole second, scoring on Mudgett's single. Three more runs were added in the sixth on errors by Knowles and Zaeder. Fisher, Philpot, Knowles and Zaeder to score. Fish made her last run in the eighth inning, Knowles being the one to cross the plate.

The score in detail:

<table>
<thead>
<tr>
<th>W. P. I.</th>
<th>A.B.</th>
<th>R.</th>
<th>B.P.O.</th>
<th>A.</th>
<th>E.</th>
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</thead>
<tbody>
<tr>
<td>Philpot, 2b</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>5</td>
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<tr>
<td>Zaeder, 1b</td>
<td>5</td>
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<td>2</td>
<td>5</td>
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<td>27</td>
<td>16</td>
<td>33</td>
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Cushing Academy:

<table>
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<tr>
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<td>1</td>
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<td>4</td>
<td>2</td>
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<tr>
<td>Corwick, 1. f.</td>
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<td>0</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Whittomore, c.</td>
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<td>0</td>
<td>8</td>
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<tr>
<td>Kendall, 1b</td>
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<td>Martin, r. f.</td>
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<td>1</td>
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<tr>
<td>35</td>
<td>7</td>
<td>8</td>
<td>24</td>
<td>12</td>
</tr>
</tbody>
</table>

W. P. I. | 30 | 1 | 5 | 0 | 0 | 1 | -10 |
Cushing Academy | 02 | 100 | 31 | 0 | 0 | -7 |

Earned runs, W. P. I. 1; Cushing Academy 4; two-base hits, Philpot, Martin, C. A.; sacrifice hits, Knowles, Harris, Fisher, Boyd; stolen bases.


THE W. A. C. MEET.

Memorial Day proved to be a great one for the athletes of the Institute. Not only did the ball players win two games from the Clinton-Lancaster Athletic nine, but those who represented the Institute in the athletic meeting of the Worcester Athletic Club acquitted themselves nobly, winning four firsts, three seconds, and the team race.

The first event, the hundred-yard dash for novices, was run in three heats. The first trial heat was won by O'Connor, '95, with F. L. Stone, '95, second; time, 11-4-5 sec. The second heat was won by Warren, '96, a W. A. C. man getting second; time, 11-3-5 sec. Both places in the third heat were taken by out-of-town men. The heat for second men went to Stone, and the finals, which were run immediately afterwards, were won by O'Connor in 10-4-5 sec.

The hundred-yard handicap came next. Killam, '95, was in this, but failed to get a place, the event going to Frank Bigelow of the High School, who started from the scratch and won in 10-2-5 sec., with Roche from the same institution second.

The two-hundred-and-twenty-yard handicap was won by Allen, '94, who started from the four-yard mark, his time being 24-2-5 sec. Morse, '97, led until fifteen yards from the finish when he was passed by Allen and McTaggart, an ex-'94 man.

Next came the quarter-mile run for novices. Vaughn, '96, set the pace, and kept the lead until O'Connor, '95, passed him about one hundred yards from home. Vaughn secured second place. The time was 54-4-5 sec.

In the next event, the quarter-mile handicap, Gallagher, '94, was one of the scratch men. Albertson of the High School, however, had a lead of eighteen yards, which was more than "Midge" was able to make up, so the Tech man had to be content with second place. The time was 54 sec.

The half-mile handicap had Langren, '97, and Harris, '94, as two of the starters. It was Langren's race from the start, his handicap of thirty yards helping him considerably. Delaney
of the W. A. C., who started from the scratch, was second. Lungren's time was 2 min. 3 sec. Harris was not placed.

The mile run was won by Sullivan of the W. H. S., but only after a hot fight with Young, '96. Sullivan had fifty yards handicap and Young forty. Sullivan's time was 4 min. 36 sec. 3-5 sec. Young was about a yard behind him at the finish.

The team race was the last event on the programme and was won rather easily by the Worcester Tech, whose team was made up of Stone, Harrington, Whipple and Gallagher, they running in the order named. The time was fairly fast.

Every organization connected with the Institute will be the subject of an article in our souvenir number.

'95 ATHLETES AT CLINTON.

The Ninety-Five class athletic team attended the handicap sports at Clinton last Saturday, and succeeded in capturing two second prizes. The events were run off quite successfully, and the Clinton-Lancaster Athletic Association should be well pleased with the results of their first tournament, even though they were unable to keep any of the prizes for their own athletes. The dozen or so Tech men who accompanied the team occupied a conspicuous position in the grand-stand, and cheered their fellow-students and the track officials, to the evident satisfaction of the crowd.

In the 100-yard dash, Killam, the W. P. I. man, succeeded in getting into the finals, but that was all, for he failed to get a place in the final, which was won in 10 1/2 sec.

Harrington, from the twenty yard, and Happgood, from the twenty-five, started in the quarter. Harrington was well up until the very finish. Time, 50 1/2 sec.

In the high hurdles Field won second, owing to the fact that Garcelon fell when near the wire. Wellington and Howe were two of the five starters in the mile. They stayed with the leaders until the last quarter, when their lack of condition told on them and they were obliged to take third and fourth places. Time, 4 min., 41 1/2 sec. O'Connor ran from the 35-yard mark in the half-mile, and was a good second in the fast time of 2 min. The 220 had Allen and Stone as starters, but neither got a place in the finals, although Allen was second in his heat.

The Tech men stayed in Clinton during the evening and arrived home in their barge about midnight, fairly well pleased with the work of their team.

CONCERT AT CLINTON.

On Friday evening, May 25th, the Glee and Banjo Clubs from the Institute gave a concert at Clinton under the auspices of the Clinton-Lancaster Athletic Association. The clubs left the city on the 6.25 P. M. train, arriving at Clinton shortly after 7 o'clock. They proceeded immediately to the Town Hall, which had assumed a charming appearance under the hands of members of the Athletic Association. The stage was tastily arranged with parlor settings, piano, lamps, rugs, sofas, etc., while in one corner on an easel was a painting of one of New England's sweetest singers, Mary Howe. The audience, which numbered about five hundred, was select and enthusiastic. From the opening number to the finale, encores were the order, each appearance of the men in their evening dress caused a murmur of applause as they entered the stage through the portieres in the rear. This had its corresponding effect and the men were at their best.

The Glee Club opened with Dudley Buck's "In absence." For an encore they sang a new song of humorous character, composed by one of the members of the club. Mr. Tilton next gave two mandolin solos, "Spanish Gallopade," Romero, and "Grace Note Galop," Barker. Mr. Peck next sang the solo of "The Quaker," with the club for a chorus. This caused an encore and another verse was given. The Banjo Club next gave the "W. P. I. March," Fisher, which was also encored. "Warning" by Jüngst, and "Jay Bird" were next given by the Glee Club. "Jay Bird" was so well appreciated that for an encore a topical verse was given in which Tech hill, breakage bill, thirteen cents, etc., all had a share. The audience were so well pleased with Mr. Da Cruz's whistling solo that followed that he was compelled to respond to a double encore. His first number was Schubert's "Serenade." This was followed by two Spanish love songs with whistling solos. Mr. Addison Beinis was Mr. Da Cruz's accompanist. Mr. Heald then gave "Sailing Across the Sea." A special number was then added. Mr. H. S. Davis, '95, gave a very entertaining exhibition with his lanterns, followed by a series of manœuvres with Indian clubs.

After the intermission the Banjo Club played the "Lightning Express," Crouch, followed by the Glee Club with "Once Upponne a Tyme." Mr. Taylor, '95, played a flute solo, "Dance Hongroises." Guile Pop, and received an ovation, being recalled three times, two of which he played solos. Mr. Burdick's rendering of Rochel's "Hungarian Love Song" was fine and he responded to an encore, singing the "Armorer's

Those present were somewhat startled immediately after the concert, when Chas. Needham asked for information regarding the Father of his Country.

Mr. Morse was very popular in the Institute and in society. He was a fine all-round athlete and excelled in foot-ball and boxing.

His funeral occurred on the 31st, in this city, and was attended by many of the students and Faculty. The bearers were from the Phi Gamma Delta fraternity, of which Mr. Morse was a charter member. They were W. N. Stark, R. C. Cleveland, J. C. Abbott, W. F. Burleigh, R. S. Parks and A. E. Culley.

The following resolutions were adopted by the fraternity:

Whereas, it has been deemed best by the Almighty Providence to remove from our midst, our dear brother, Fred A. Morse, who, from the inception of the chapter has given to it every assistance in his power; and

Whereas, we greatly mourn the loss of our beloved brother and true friend, and in our parting realize even more fully the link that has bound us; therefore, be it

Resolved, that Pi Iota chapter of the fraternity of Phi Gamma Delta extends its heartfelt sympathy to those upon whom the sorrow falls most deeply; and,

Resolved, that his loss, carrying into our midst deep affliction and intense grief, brings into our hearts tender memories and cherished thoughts; and,

Resolved, that in respect to his memory the pins of the chapter be draped for a period of 15 days, and

Resolved, that a copy of these resolutions be sent to his family, and published in the college and daily papers.

For Pi Iota chapter.

WAVERLY W. BROOKS, CHARLES A. BURT, CLIFTON H. DWINNELL, 

The class of '92 drew up the following resolutions:

Whereas, death has removed from our number our beloved classmate and friend, Fred A. Morse, be it

Resolved, that the class of '92, Worcester Polytechnic Institute, feels deeply the loss to its membership of one universally admired for his genial disposition and true manliness of character. In our acquaintance we have learned to treasure his friendship, and will ever cherish his memory with sincere affection.

Resolved, that the class extend its sympathy in their bereavement to those whose lives were most closely bound to his.

Resolved, that these resolutions be preserved in the records of the class, and that copies be sent to the family and to the daily and Institute papers for publication.

For the class.

MICHAEEL J. LEYDEN, WILLIAM F. BURLEIGH, 

PROGRAMME FOR COMMENCEMENT WEEK.

Sunday, June 17th. Baccalaureate sermon by Dr. Conrad, at 7.30, at Central Church.

Tuesday, June 19th. Senior Class reception at Horticultural Hall.
Examination of candidates for admission to the Institute, in Boynton Hall, at 8 A. M.

Wednesday, June 30th. Meeting of the Washburn Mechanical Engineering Society, in Chapel, at 8.30 P. M. Address by Robert W. Hunt, of Chicago, on "The ideal Tech graduate from the employer's standpoint."

Annual meeting and banquet of the alumni at the Bay State House.

Thursday, June 21. Exhibition of drawings, wood and iron work, also of shops and laboratories from 9 A. M. to 12 M.

Class-Day exercises on Institute grounds, near Magnetic Laboratory, at 2.30 P. M.

Graduating exercises at Association Hall, 8 P. M.

GRADUATION INVITATIONS.

A very neat affair is the Senior graduation invitation. On the cover is an etching of the Institute as viewed from the south side. In the corner also is the monogram of the class.

On the first page is the invitation—The honor of your presence is requested at the Commencement exercises of the Worcester Polytechnic Institute, Thursday, June 21st. The second page contains the calendar for Commencement Week. On the back of the cover is a cut with the legend "Vive '94." The whole is neatly bound by cords of the class colors—orange and black.

CLASS-DAY.

The programme for the Class-Day exercises, which occur June 21st, is as follows:—

Address by the President.—Eugene B. Whipple.

Class History.—Lewis A. Howland.

Facts and Figures.—Henry N. Smith.

Class Oration.—John M. Gallagher.

A Glimpse into the Future.—Arthur L. Clark.

Farewell Address.—Shepard B. Palmer.

ALUMNI NOTES.

'86. Clinton Alvord, formerly head draughtsman in the firm of Lehaum and Uhlinger of Philadelphia, has accepted a position with the Gilbert Loom Co. of this city.

'87. Ever since graduating from the Institute, Prof. Frederick T. Emory has been engaged in a broad field of educational work. For three years he was in the mechanical department of the High School of Washington, D. C. During the next two years he established and superintended a system of trade schools in the reformatories of this state, a system which embraces instruction in a dozen branches of manual training. He was then called to occupy the chair of Mechanical Engineering and become director of the shops at the West Virginia University, where he built and equipped that department. This position he held until recently called to take charge of the construction and equipment, and to become principal of the new Industrial School which will soon be opened in Indianapolis, Ind. The school is intended to be of large scope, and to include instruction in many branches, and to prepare for any practical line of work.

It is to be conducted in connection with the public schools of the city and to be open to both sexes. It is the intention of the projectors to make it a school which will at once take rank with such institutions as the Pratt Institute of Brooklyn, N. Y., and the Armour Institute in Chicago.

To give some idea of the vast amount of work over which Prof. Emory has charge, it is only necessary to say a few words concerning the building. It is of brick, stone trimmed, and has a front of 420 feet, occupying a whole square. The building is wired and piped throughout for electricity and gas, as evening courses will be offered in the principal studies.

With his wide and varied experience in this line of work, Prof. Emory will doubtless succeed in making the school all that it is intended to be.

'89. Albert W. Gilbert, who has been employed as chief engineer of the railway department by the Pennsylvania General Electric Co., has left that firm and assumed the duties of city electrician in the city of Hartford, Conn.

'90. Ellis W. Lazell, formerly an instructor in chemistry at the Institute, is pursuing an advanced course in that study at the Göttingen University, Germany.

'92. Chas. A. Needham is captain of the recently formed Clinton-Lancaster Athletic Club, and acted as official announcer at the sports held there last week.

'93. Roswell C. Clapp, now residing in Hartford, Conn., will be married to Mabel Rest Lawrence of this city on Tuesday, the 12th inst.

TECHNICALITIES.

The prevailing question this week: Where am I at?

Walter A. Clark, ex-'96, has enlisted on the Enterprise.

The ball team will play the Williston team, at Easthampton, next Tuesday.
M. E. Sellew, a former member of the class of Ninety-five, graduates from the Mass. Agricultural College this year.

The tennis tournament that was to have been held last week was necessarily postponed until Tuesday and Wednesday of the present week.

Since our last issue Manager Gordon has received a contribution from J. F. Bartlett, '92, towards the base-ball debt.

Chapel exercises were led a week ago last Monday by Dr. McCullagh, while on the following Thursday Rev. Mr. Pickles led the exercises.

Chapel exercises were held a week ago yesterday for the last time this year. Baldwin, '94, played the cornet as an accompaniment to the two hymns that were sung.

The Sunday afternoon meetings prove very interesting, and it is hoped that next year a larger number will make it a point to attend them.

Scott, '94, led the meeting Sunday, May 27, and Bishop, '94, led last Sunday’s meeting.

There will be one more meeting, next Sunday, to which all are cordially invited.

Students, who will not be in the city after Commencement, should give their names at once to the Business Manager in order that the next W P I may be sent to them at their home address.

The Institute has certainly been well and favorably advertised in the town of Clinton during the past week, for during that time the Glee Club, ball team, and members of the Athletic Association have all appeared in public there.

The Sophomores have already commenced to think about their Aftermath, and a committee to collect matter has been chosen. This committee consists of the three W P I editors from '96, together with F. E. Knowles, C. R. Harris and E. Mossman.

The concert by the Mount Holyoke musical clubs given at Memorial Hall, on Tuesday evening, May 29th, was most excellent. Many Tech men were present at the concert and not a few were at the reception given after the concert in the parlors, in honor of the young ladies.

The next issue will be a dandy. Don’t fail to secure a copy.

The batting averages of the players now stands:

<table>
<thead>
<tr>
<th>Player</th>
<th>Average</th>
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<tbody>
<tr>
<td>Zaeder</td>
<td>.500</td>
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<td>Harris</td>
<td>.333</td>
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<tr>
<td>Bunker</td>
<td>.325</td>
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<td>Knowles</td>
<td>.256</td>
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<td>Martin</td>
<td>.129</td>
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<td>Philpot</td>
<td>.250</td>
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<tr>
<td>Gordon</td>
<td>.250</td>
</tr>
<tr>
<td>Cullen</td>
<td>.250</td>
</tr>
<tr>
<td>Fisher</td>
<td>.185</td>
</tr>
</tbody>
</table>

O. M. Higgins, brother of Supt. Higgins, employed as pattern-maker in the shops, died on May 28th, of congestion of the lungs, after an illness of but three days. His funeral was from his late residence on Gilman street, on Thursday afternoon, May 31st. The shops were closed on that afternoon.

At the beginning of the term Prof. Gladwin offered, in each division of the Freshman Class, a souvenir to the student making the best progress in sketching. The prizes, consisting of their best sketch developed into a picture, were won by the following men: Div. A, Mr. Pease; Div. B, Mr. Paine; Div. C, Mr. Beaman.

The meeting on Thursday was conducted by Mr. G. E. Day, Assistant State Secretary of the Y. M. C. A. The meeting was well attended and the leader gave a very interesting address. He drew particular attention to the advantages to be derived from a visit to the Northfield Convention, and urged as many as possible of the members of the Tech Y. M. C. A. to attend.

The class of '96 held a meeting Friday, May 25th, to arrange matters concerning their half-way thoro’ celebrations. The following committee was elected to have full charge of affairs in connection therewith: F. D. Crawshaw, T. H. Coe, C. P. Ware, E. F. Darling and R. S. Riley. '96 intends to eclipse all former half-way thro’s in this banquet, which will necessarily be the last of the mid-winter banquets, owing to the recent changes in the length of the course.

John, the Orangeman at Harvard, hates as strongly as he loves, and the objects of his hate are those who are opposed to the interest of Harvard. So Yale comes in for the greatest share of his dislike. Some time ago, a tourist bride and groom, who were admiring the beauties of the chapel, and reading the numerous mottoes in the stained-glass windows, asked John the meaning of “Christo et Ecclesiae,” which motto appears so often in the college buildings. “I’m not sure, my friend,” said John, “but I think it means, ‘To — with Yale.’”—Harvard Letter in University Courier.

It is one of the advantages of the profession of electrical engineering, says London Lighting, that the great variety in the applications of electricity compels the electrical engineer to make himself acquainted with the details of all sorts of machinery, and with most of the sciences. To design meters, he must be something of a watchmaker; he must understand steam engines, gas engines and turbines; he must be physicist, a chemist and a mathematician, and must hold himself in readiness to
master at a moment's notice the details of any trade and manufacture to which his versatile science may be applicable. Added to this, since the profession is so largely in the hands of young men, he very often is an athlete, a cyclist, or an oarsman.

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**COLLEGE VERSE.**

**IT'S A FACT.**

The lover and the gas are foes,
Without an earthly doubt,
For every time that one comes in
The other one goes out._Ex._

**EVERY MECHANIC KNOWS IT.**

The cadet, just released from the grind of the day,
In body quite weary and sore,
Is a proof of the fact which we all will admit,
That the work of a drill is to bore._Ex._

**IN SPITE OF HARD TIMES.**

Daisy! Daisy!
Give him your answer, do!
We're half crazy,
Hearing him sing of you.
Just name the day of marriage,
We'll all chip in for a carriage,
And it will be our treat,
If you put in a seat.
For those two little girls in blue.—*Puck.*

**JUST IN SEASON.**

After exams are over,
After the ponies are torn,
After the dangers hovered
Over the students forlorn,
Many a papá is aching
Only that son to see
Who by the tutes was caught faking,
And shipped on the Q. T.—*Wrinkle.*

**IT'S THE SAME STORY.**

Tell me not, in tailor's numbers,
"That my bill is what it seems!"
For my coats and vests in slumbers,
Dance about me in my dreams.
But the tailor is in earnest,
And to save me from a hole,
To the three-ball sign returneth,
And again my watch I've sold.—*The Lafayette.*

**A MOONLIGHT EVE.**

"T was a lovely moonlight evening,
As on the porch we sat,
And I asked her what for her birthday
I should give my darling pet.
She looked up smiling in my eyes,
Her cheeks grew red and hot,
"Why, Charlie, you forget yourself;"
I offered on the spot.—*Brunonian.*

**IT MADE NO DIFFERENCE.**

She said she went with a college-bred man,—
I had half a mind to forsake her;
When she was so wealthy, so witty, and wise,
To only go with a baker!—*The Lafayette.*

**THE LAND OF THE CALCULUS.**

O come with me to the Calculus,
A land that is close at hand;
Where the strangest sort of creatures
Disport on the dreary strand.
The Lemniscate and the Lemnion
Hold sweet communion there;
And a rationalized Equation
Is forever in the chair.

An osculating Circle
Whirls round a Cardioid,
While a dusty Cusp endeavors
To evaluate a void.

The Derivative is dancing
In the wildest sort of curve,
And the Transcendental Function
Is showing off his nerve.
You take the right-hand crossing,
Where H approaches V,
And you journey toward the limit;
I believe that is a C.—*The Tech.*

**AFFINITIIES.**

There was a Vassar maiden
All filled with classic lore
Of molecules, and valence rules,
Precipitates galore.
She could make a little hydrate
Before you'd nod your head,
Then in a wink, before you'd think,
The H₂O had fled!
And the maid, with glance serene,
Showed you oxide in its stead.
She conversed of oxychlorides,
And awed her little mates
With tales galore of Pentachlor-
Acet-Aluminates.
How to tell this learned maiden
Of my love in manner sweet,
Unto her say in chemic way,
My own, I love thee, sweet—
I pondered long, but could not find
A form than this more neat.
"My valence is but one, dear,
And that is all for thee,
Each atom of my heart, dear,
Most desolate will be,
Unless with thine it can partake
Of blissful unity.
"Give unto me your valence, dear,
So that we two may stand,
The very strongest molecule
In all our native land."—*Vassar Miscellany.*
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