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Students of Worcester Technical Institute

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OCULISTS' FORMULÆ FILLED IN OUR OWN WORKSHOP.
In our last issue we predicted a brilliant success for the burlesque. It has surpassed our fondest hopes. With some of the most fashionable audiences which have occupied the Worcester theatre this season, with performers and music moving without a break, what Tech man does not feel a pride in his institution? Each man showed that he knew his part thoroughly. The work of the chorus was fine. The specialties were great.

The cast impersonated so naturally and with so much "chic" that it was hard to believe that many of them were not professionals. "Shylock, Jr." or the "Merchant up to Date," was the greatest undertaking which Tech men have ever shouldered.

The sincere thanks of every man in the Institute is due to Librettist Doe and Composer Dana for their masterful work. This show will go down in the history of Tech as one of its most successful ventures, and its memory to those who took part will be ever among the pleasantest recollections of their college course.

The nearness of Intercollegiate reminds us of the great importance of track athletics. This field training gives a man, in a greater degree, perhaps, than any other, an all around development. Football, baseball and other like sports necessarily can be participated in by a relatively small percentage of the students. The great advantage of track athletics is that they can be engaged in by everyone.
The pleasure of running and jumping, the awakening of one's faculties and the ability to attack one's work with vim, these, the fruits of well directed exercise, would surprise many men who have never indulged.

Every man who is not interested at the present time in some other branch of athletics should put himself immediately in the hands of Trainer Donavan. His instructions about dieting and staying in nights must be obeyed to the letter if we are to do anything. We believe that if a large number of men come out, the enthusiasm aroused thereby will be perfectly irresistible; an increased attendance next fall, better facilities for engaging in athletics, and honor at the Oval two weeks hence, will be the outcome.

There are two vacancies on this board: one from '96, the other from '98. We would call it to the attention of the gentlemen in these classes that college journalism forms no mean part of the education of those who are engaged in it. It strengthens the powers of observation, brings men more intimately into contact with all features of college life and tends to make them ready with the pen, not to speak of the financial inducements and the honor of being connected with a college paper. Competitors may submit articles on any subject in which they may be interested, or we will assign subjects on application. The contest will be decided on the merits of the papers submitted; and we would like a general response, in order that the best men may be chosen.

The many friends of Mr. John W. Chalfant, Jr., Editor-in-Chief of the WPI, will be pained to learn of the death of his father, which occurred at his home in Pittsburg, Pa., April 21st. Mr. C. F. Leonard, '96, has been elected Editor-in-Chief, pro tem., until Mr. Chalfant may be able to resume the duties of the office.

There should have been class ball games. All who remember the last ones and the enthusiasm aroused by them will subscribe to this sentiment. The way to do is for each class to appoint a captain and hold him responsible in seeing that they take place.

Extra copies of the last issue, containing a cut of President Mendenhall, may be had on application to the Business Manager.

Tech feels proud of its ball team. Although rain has interfered with several games, those which the team have played show that it contains good material. Keep it up!

"SHYLOCK, JR.," OR "THE MERCHANT UP TO DATE.

"Nothing succeeds like success," but in Worcester, at least, Tech burlesque is a synonym for success. A stranger seated in the Worcester Theatre when the curtain rose Friday evening, April 26th, would have found it hard to convince himself that he was listening to the opening chorus of an amateur performance, and not to that of some professional production such as Hoyt or Rice bring forth. Of course it is but natural that those most interested should be somewhat partial to the work of their friends, and perhaps inclined to overestimate the merits of it, but the consensus of opinions, gathered from critics, newspapermen, persons familiar with theatrical work, and from the audience at large, is that Shylock, Jr., is the best amateur play ever given in Worcester, and that too much cannot be said in praise of Mr. H. W. Doe and Mr. W. S. B. Dana.

In writing the book Mr. Doe displayed a great deal of originality, which gave the play a freshness that so many burlesques lack. One of the best things that can be said of Mr. Dana's music is that aside from being bright and catchy it was entirely original, and was not stolen from other compositions.

From the first to the last the play went off in fine shape, without a hitch of any kind. The costumes were decidedly effective, and all the scenes were well laid. Without exception the cast took their parts excellently. The only fault that could possibly have been found was that the play was rather long on the opening night, but minor, unimportant parts were cut so
that the other two performances were without a drawback.

The audience on the first night, although appreciative, was not as large as had been hoped for. Members of the Phi Gamma Delta fraternity occupied the lower right boxes, and several members of Sigma Alpha Epsilon, with lady friends, occupied those on the left.

The matinee brought out a very good house for a Saturday afternoon. Saturday evening almost every seat in the theatre, including the boxes, was taken. Both nights the play called out the most fashionable audiences seen in the theatre for many a day.

The expense of producing such a play is necessarily large, and the financial gain will be small, but the reputation which the Institute gains is a rich reward for the hard work done.

Mr. Doe's ideas in mechanical effects were unique, and the electric gondola, the pile-driver, and the full moon took immensely with the audience.

The curtain rises in the square of Venice upon which stands Shylock's pawn shop and residence. Gathered in the square is a group of charming flower-girls, gondoliers, and hot-sausage vendors, who tell of their vocation in the opening chorus, "Toilers of Venice." Then follows a scene between Lorenzo and Jessica. Shylock appears and after being derided by the crowd sings "They call me Sheeny Shylock." A hit on Trilby is run in by Shylock's hypnotizing his daughter in order to make her sing. Antonio and Bassanio appear on the scene, being greeted with faint cheers from the chorus. They sing an exceedingly bright song, "Stars of the Highest Magnitude." Lorenzo and his friends depart on the West Venice Bridge of Sighs line, electric gondola, which is just passing along the canal, being run from a trolley wire. Bassanio and Antonio are left alone, and Bass. asks Antonio for a loan of ten thousand simoleans to enable him to marry the fair Portia with whom he is in love, although he has not yet met the damsel. While arguing the point, Portia, the new woman, makes her appearance in a novel and amusing manner. Attired in a natty suit, with plaid bloomers, and mounted on a bicycle, she rides in upon the blue water of the canal. Bassanio insists that Antonio introduce him to Portia, but on addressing her Antonio is coldly snubbed. Bassanio succeeds in making her acquaintance, however, and Portia consents to sing for them. She sings "The New Woman." He also obtains her permission to try his fortune at the caskets that evening at her house. Whoever gets the lucky casket wins Portia and two million simoleans. She wheels away, and Bassino persuades Antonio to negotiate a loan from Shylock. This is accomplished only by a promise of 80 per cent. interest and by Antonio's giving bond for a pound of flesh as security. The trio then sing, "What Willie Says Goes," a song which from its originality is well worth repeating here.

Shylock—if Mr. Shakspere said it, I am sure it must be right.

For he always has a proverb that will fit things out of sight:

And though it isn't in this play I know it is in place, I can tell you of a proverb that will fit this very case, You oughtn't to suspicion me I tell you what it is, Ant. and Bass—Why what's the proverb that you take to fill a case like this?

Shylock—Suspicion always haunts the mind that stands in on the game,

If you thought I meant to monkey, why you must have meant the same,

As Mr. Shakspere says it I am sure that you will find, Suspicion, yes, suspicion, always haunts the guilty mind.

Trio—Yes, Willie has said it, We often have read it,

Your words have removed all the doubt that arose; Your little quotation Has our approbation,

"Twas what Willie said, and what Willie says goes.

Bass—Your words have just reminded me of one poor friend of mine,

Who ran for Venice License Board and though he stood in line,

He loved the office with a love, that very much, I think,

Surpassed the love of women or a drummer's love of drink.

Well the office may have sought him—at the place he wasn't at,

Both—Why, what's the proverb that you take to fit a case like that?

Bass—The course of true love you will find is always full of tacks,

If you want to travel on that road you'll have to take an ax,

But if you're beaten, William's wisdom possibly may soothe.

"The course of true love Never, never, never did run smooth."

Ant.—One day a boy was ten years old, his very best of paps,

Procured Swiss Family Robinson and a box of chocolate drops.

But when he started to surprise his very best of pets, He found him reading Zola with a box of cigarettes. And when they brought the old man to, he said to knock him flat.

Both—Why, what's the proverb that you take to fit a case like that?

Ant.—It's a very wise old father that is on to all his kids,

He's offered both the books for sale, but has not yet had bids,

He says the proverb soothed him when he thought of going wild.

It's a wise, wise father, that knows his own child.

Lorenzo enters and secures Antonio to help him serenade Jessica. Tony reminds him that it is broad daylight, and no time for such things, but Lorenzo steps forward and in a few
lines calls on darkness, the light grows dim, and a full moon with a jolly face appears over the water. They proceed to serenade the fair maiden upon several different instruments, the last being a take-off on the Salvation Army, which brought down the house. Failing to bring forth the maiden, Lorenzo proposes to sing to the moon, but he has no sooner begun than its expression changes to a cross-eyed, down-in-the-mouth countenance, which calls forth roars of laughter from the audience.

Jessica finally appears at the window, and Lorenzo, standing on Antonio's shoulders, makes love to her until Coppi Coppi appears in the character of a policeman, and drives them away. Mr. Doe, in this character, made up as a true son of the Emerald Isle, called forth a burst of applause upon entering and kept the house in laughter every minute he was on the stage.

As the ballet music strikes up twelve charming and graceful maiden's trip upon the stage. Through difficult and intricate figures they dance in and out in almost perfect form, and then they fall back to the rear of the stage, as a quartette of especially graceful dancers enter and go through a dance full of light and fascinating movements. Then comes the premiere danseuse, A. H. Warren, made up as a fair young blonde, and wearing a black ballet dress. He went through a well arranged dance in a manner that elicited prolonged applause. The act ended with the Blizzard Ballet, which, like the rest of the steps, was arranged by A. W. Doe, to whom in a large measure is due the success of the ballet. The Grecian costumes were exceedingly effective, and the calcium lights shone upon them and the falling snow in a way that made the scene truly bright and picturesque.

The curtain ascends for the second act upon the ball-room at the Belmont, Portia's home, where she is seen seated with her attendant Nerissa, and after a discussion of her former suitors and the manner in which her husband is to be chosen, she goes to meet her guests. Salanio and Gratiano appear, and soon Lorenzo enters with Jessica on his arm. It transpires that, as Lorenzo says, "This bird has flown the coop," and they have been married.

The happy couple join in a song which starts out in a sentimental strain, but changes to a lively song and dance, and called forth repeated encores from the audience.

Antonio and Bassanio enter upon the stage, and a moment later Portia appears, is presented to Antonio and before she leaves gives Bassanio a tip as to the right casket.

The guests, in the form of the chorus, enter upon the scene to watch the "casketing."

The inimitable Gobbo, with his rich brogue, announces the Duke of Arragon, who wishes to try his luck. He tells of his love in a song characteristic of his nation, and a quartette of Spanish dancing-girls enhanced the effectiveness of the scene.

Gobbo appears and announces, "The Prince of Morocco, he's black as the devil!" The Prince enters and tells of his love in a beautiful melody, being accompanied by his Nubian slaves, the Banjo Club, who wore costumes of black tights, with a short white kilt, and tall, light hats. Their appearance created much amusement, but before the Prince, H. D. Temple, had ceased singing the audience were rapturous with delight, and the applause when he finished was deafening.

The choice of caskets began after Portia sang the casket song.

Arragon tried his fortune with a pack of cards and drew a blank in his casket, that of gold. Morocco's slaves "shot craps" for him, and he too failed to get a prize. Bassanio tries a more effective dodge. He rubbed a hunchback's hump and reciting, "Eeney, meeney, miney, mo," found the photograph of Portia in the leaden casket.

The last act is the court-room. Coppi is on hand, and drives off the members of the cast who chance to be loafering about the hall of justice. Nerissa comes in and starts a little flirtation with the big policeman. They get to talking about circuses and finally tell of the joys of the circus in a song. The audience fairly roared with delight. The pair worked in all sorts of "business" into the song. The band in the street parade, with its various instruments, was heard approaching up the street. The grunts and snarls of animals of the menagerie were audible in the deathly silence following the announcement of "a leap to death." Then the cries of the vendors of peanuts and lemonade vied with the stentorian announcement of the stage show. The dance which went with the song was a combination of graceful steps with quick handsprings.

The court-room filled and the barristers sang of their profession. The Duke of Venice (who was Napoleon Bonaparte) presided, and first heard the case of the dancing dolls. They performed before the Court and created great amusement.

Shylock's case against Antonio is called and the Court finds for the plaintiff, and Shylock says that he will take the pound of flesh from the top of Antonio's head, by the aid of the "mammoth, practical and realistic pile driver."

To the horror of the audience a massive pile driver is brought in. This engine of destruction
must remove the pound of flesh. Lorenzo gives Portia the bond, but she forgets her cue. The victim's head is placed upon the block, Coppi pulls up the great weight. Portia is frantic. The weight falls and the spectators gather about the prostrate form of Antonio. Sure enough, the top of his head was dreadfully elongated but his life remained, that he might hear of the return of his diamond-laden ship. All ends happily in a ringing chorus:

We've done, we've done,
At last the show is over;
Now we're in clover,
We'll think, we'll think,
Good luck has been no rover.
If you say you like the show
Before 'tis time to go,
For we all have tried our
Best to please you,
And we really hope you
Haven't felt a pain seize you.
If you have, however,
Please observe this rule,
Make the author take the blame,
Please acquit the school.
Rah! Rah! Rah!!!
Worcester Polytech,
Polly-wolly, wolly-polly, Polly-wolly Tech!
Now good night, and once
Again we thank you,
And among our dearest friends
We shall always rank you.
We're repaid if you have
Found it fun.
Good luck to you, good night,
Good night,
For now our show is done.

At the close of the second act, Saturday night, loud cries of "We want Harry Doe and Billy Dana!" arose among the audience, and the librettist and composer of the play appeared before the curtain amid tumultuous applause.

THE CAST.

Shylock, doing business as "The Shylock Collateral Loan Co." the unpleasant person of the play, unpopular in spite of his willingness to accommodate those who desire temporary financial assistance on easy terms, George William Throop, '97.

Antonio, the Merchant of Venice, whose efforts to assist the leading and juvenile lovers of the cast, lead him into more difficulties than is usual with the "kind friend" of drama, with sporting tendencies, Theo. Lamson, '97.

Bassanio, Antonio's running mate, who is entirely self-reliant except in money matters, in love with Portia, Edward C. Thrasher, '98.

Lorenzo, who supplies the romantic element and who considers Jessica "a bird," Robert H. Taylor, '95.

Salanio, a friend of the principal character, who is occasionally obliged to assume the explanatory functions of a Greek chorus, Fred Crawshaw, '96.

Gratiano, a second editor of Salanio (limited), who has his own opinions, Horace Carpenter, '96.

The Prince of Arragon, a suitor for the hand of Portia, very little altered from M. Shakspeare's original, Eugene A. Copeland, '95.

The Prince of Morocco, another suitor, who is also very much as the Bard of Avon intended him to be, Harry D. Temple, '95.

The Duke of Venice, whose rulings would do credit to the most celebrated of modern justices, Henry S. Favor, '95.

Launcelot Gobbo, servant to Shylock, and afterwards to everyone in the cast, the ideal Shakespearian clown, W. Merchant, '97.

Coppi Coppi, a guardian of the law, who cannot be found in the original, but who undoubtedly would have been had Shakspeare been bright enough to think of it, H. W. Doe.

First Barrister, a victim of judicial spleen, Frank W. Smith, '97.

Portia, who represents the Shakspearian idea of "the new woman," with a liking for Bassanio, Joseph M. Tilden, '95.

Jessica, Shylock's daughter, who has an understanding with Lorenzo and a fondness for romance, the only tenor in the cast, George O. Sanford, '95.

Nerissa, soubrette, Portia's companion, Alexander W. Doe, '95.


Dancing dolls—Nellie, Hervey G. Phelps, '96; Salie, Harry M. Warren, '96; Millie, Clifton B. Snyder, '98; Millie, a little out of order, Arthur S. Newcombe, '95.

Coryphee—J. Arthur LeClerc, '95; William O. Wellington, '95; George A. Denny, '95; J. Warren Thayer, '95; Albert W. Howe, '95; George S. Gibbs, '96; Albert J. Giford, '96; William D. Edwards, '97; Henry S. Lancaster, '97; Charles A. Brown, '98; Clarence M. Hall, '98.


MANAGING STAFF.


MR. WOODBURY'S LECTURE.

The general lecture on Monday morning, April 22, was given by Mr. C. J. H. Woodbury of Boston. His subject, "Modern Mill Construction," being so broad, that in the limited time, only a few of the important characteristics could be given. The first part of the lecture was devoted to the illustration of the older types of mill construction, stereopticon views of many mills, including cotton mills, machine shops and foundries, being thrown upon the screen and the various faults in each
pointed out. Later mills were then shown and discussed with reference to external appearance, convenience in operation and resistance of fire. While not entering into details and technical discussions, the lecture was of value to many, in that it impressed upon the mind the general ideas of mill construction. The lecturer closed his remarks by stating that “A good designer must be a good copyist.”

COMMUNICATION.

Editor of WPI:

My Dear Sir: Mr. Alvord, in your issue of April 20th, writing of the elliptic bevel gear, says, “Mr. Grant, of Lexington, Mass., wrote that it was all explained in his book on gearing, but a careful reading of said publication discloses only a small wood-cut in perspective with absolutely no description of construction.”

He must be mistaken, for I have never claimed that my “Treatise on Gearing” was complete in anything, for a book that will give details of construction over the whole subject of gearing, including such trivial matters as elliptic bevel gearing, would be as large as Webster’s Unabridged, and sell, or rather it would not sell, for ten dollars. I gave the elliptical bevel gear all the space it deserves, for, to tell the truth, I never saw but one machine on which it was at work, a plush loom, and in the whole course of my business I have never been called upon to make one. My book is simply introductory to such small matters.

The elliptic bevel gear is quite extensively treated of in McCord’s Kinematics, and I think Prof. McCord claims the invention of the device. It has been in use on looms of various sorts, particularly on plush looms and similar machines, time out of mind.

I would like to know a pattern maker smart enough to take Mr. Alvord’s detailed description and construct a working pattern from it. I cannot.

George B. Grant,
Lexington, Mass.

WHAT MAKES AN UNBALANCED WHEEL REVOLVE STEADY AT HIGH SPEED?

Locomotive Engineering.

In a paper on “Counterbalancing of Driving Wheels,” by Mr. R. P. C. Sanderson, read at the Southern Railway Club, a mechanical fallacy is exploded which for the past few years has lead to no little theorizing and speculating among men given to playing with mechanical curiosities. In a paper read at an engineering society several years ago, there were some curious theories advanced about why an emery wheel out of balance, that would wobble at low speed would run steady at high speed. The explanation given was that the rapidly revolving wheel changed its axis of rotation, worked itself toward the centre of gravity and found for itself a balanced centre of rotation. Mathematicians demonstrated this theory to be correct.

As an aid in investigating the counterbalancing of driving wheels, Mr. Sanderson made an apparatus which could be revolved rapidly on centres that were free to move. Provision was made for making one side of the revolving disk heavier than the other. When it was run out of balance, it was found that the centre of gravity had a decided tendency to fly away from the centre of rotation. In other words, it did what learned college professors had, to their own satisfaction, proved it could not do. It is dangerous putting much faith in mere theories about mechanical actions. We are now ready for new theories of why a worn emery wheel runs steady at high speed.

Dr. Mendenhall’s Visit to Washington.

Shortly after the Easter vacation, Dr. Mendenhall made a trip to Washington, the primary object of which was to confer with the representative of the Canadian Government, Mr. W. F. King of Ottawa, in regard to the northeast boundary between the United States and Canada and the Alaska Boundary Line Survey. In this connection it may be mentioned that a chart of South Eastern Alaska is in the course of preparation and will be finished next October.

While in Washington, Dr. Mendenhall attended the meeting of the National Academy of Sciences, of which he is a member. This body is incorporated by the government and is the one to which it refers all questions of a scientific character. It is composed of the ablest scientists in the country, the membership being limited to one hundred. At the present time it has eighty-seven members, the greater part of whom came from New England; quite a number live in Washington, while there are less than six from west of the Alleghany Mountains.

The Academy holds meetings twice a year, in November and in April. The November meeting is to be held in Philadelphia. At the annual meeting in April, which is for the purpose of electing new members and officers, a new president, who is to hold office for six years, was elected in the person of Dr. Walcott Gibbs of Newport, R. I. He succeeds Prof. O. C. Marsh of New Haven.
TECH BEATS BANGOR.

Tech opened the season Friday, April 19, by defeating the Bangor team of the New England league by a score of 4 to 2. The attendance was about 400, mostly Tech students.

Martin pitched a steady game, and the opposing batsmen found it hard to hit the ball safely, only four hits being made off his delivery. Philpot, at second, played the position almost perfectly, covering lots of territory, as well as hitting the ball hard and often. The Tech men were not headed during any part of the game, and it was only in the eighth inning, when the Tech players temporarily went to pieces, that the Bangors had any chance to pull out the game.

The game was called by Umpire Gordon a few minutes after 3 o'clock, the Bangor team having the field. Philpot, the first man to face the Bangor pitcher, McCaughlin, hit the ball way into left field for a safe hit. On the next ball pitched he went down to second by a clever steal, and a moment later he appropriated third in a similar manner, scoring on the second baseman’s error of Bunker’s grounder. Meanwhile both Knowles and Zaeder had struck out. Bunker stole second, but was left there, as Harris went out, G. Moore to Sharrott. The Bangors were retired in short order. Sharrott went out on a grounder to Philpot. Nevers struck out. Deady reached first on Cullen’s fumble of his hard-hit grounder, but was out trying to make two bases on the play.

The second inning netted another run for Tech, mainly by beautiful base running by Cullen. He was the first man up and got his base on a hit. He stole second on the next ball pitched, Hayes throwing wide to second. He stole third a moment later and scored on Hayward’s error of Sibley’s grounder. The Bangors accomplished nothing in their half.

In the third inning Philpot was given his base on four balls, but was put out in attempting to steal. Knowles flew out to Hayward. Zaeder sent a high fly to centre, which was muffed by Deady, but the Tech captain got no farther, as Bunker fanned the air. Hayes, the first man up for Bangor, hit safely to right. Martin gave McCaughlin his base on balls, which sent Hayes down to second. Hayes stole third, and with no one out, it looked as though Bangor might score. After Hayes had stolen third McCaughlin ran down to second and Hayes, thinking that Fisher would throw down, left his base to run home. But the Tech man instead threw to Knowles, and before Hayes had realized what had happened, he was out. The next three men were retired in order.

Neither side did any scoring in the fourth, but in the fifth Fisher opened by getting two bases on a wild throw to first by Hayward. Martin hit an easy grounder that proved to be good for a base, but he was run down between first and second, Fisher going to third. Philpot hit for two bases, sending in Fisher. Knowles sacrificed, Wheeler to Sharrott. Zaeder got in a single, and stole second, Philpot scoring on Hayes’ throw to second, Bunker flew out to Sharrott.

The seventh inning saw several changes in the Bangor team. Hayes retired and Deady came in from centre field to catch. Wheeler, who had been pitching for a few innings, was sent to centre, while Curran, a new man, went into the box. He retired the Tech batsmen in short order, Philpot going out, R. Moore to Sharrott, Knowles from Hayward to Sharrott, and Zaeder struck out.

The Bangors made their only runs in their half of the eighth inning. After Sharrott had been retired, Knowles to Zaeder, Nevers made a clean base hit and reached second on a similar hit by Deady. An error by Fisher advanced each runner a base. Judd went out, Cullen to Zaeder. Then Hayward drove a fly into left field, which Bunker misjudged, and Nevers brought in the first run for Bangor. A second later Deady ran across the plate on a wild pitch by Martin, G. Moore was retired on a foul fly to Knowles. The score:

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<tr>
<th>A.B.</th>
<th>R.</th>
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<th>P.O.</th>
<th>A.</th>
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</thead>
<tbody>
<tr>
<td>Philpot, 2b</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Knowles, 3b</td>
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<td>0</td>
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<td>1</td>
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<td>Bunker, l f</td>
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<td>0</td>
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<td>0</td>
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<td><strong>Total</strong></td>
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BANGOR.

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<td><strong>4</strong></td>
<td><strong>27</strong></td>
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W. P. I.

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Earned runs, W. P. I. 2; two-base hit, Philpot; sacrifice hits, Wheeler, Knowles; stolen bases, War-

W. P. I. vs. Amherst Aggies.

The baseball team went to Amherst Saturday, April 27, on the 9:50 a.m. train to play the Aggies. A heavy thunder shower in the morning had rendered the ground soggy, and soon after reaching Amherst, a drizzly rain set in.

After dinner at the Amherst House a barge conveyed the team to the grounds. There they were met by the members of the Aggie team, who showed them every kindness, giving up their rooms for dressing purposes, and otherwise helping our boys enjoy themselves.

The game was started shortly before 3 o’clock with Tech at the bat. Philpot had three balls and two strikes, and then cracked a beauty over second for a single. “Phil” stole second and scored on Knowles’ hot grounder to short, which Warden fumbled.

Knowles got around to third on a wild pitch and then Zaeder drove a long fly to deep left centre for three bags, quick fielding holding him at third. He scored a minute later on a passed ball. Bunker struck out, but Harris put in a single, stole second, went to third on Cullen’s sacrifice and scored on a passed ball.

The Aggies failed to score in their half. Score, Tech 4; Aggies 0.

Tech went out in order in the second, but Aggie scored two runs on a single by Warden, a base on balls, a steal, and errors by Cullen and Zaeder. Score, Tech 4; Aggie 2.

In the third Tech scored an earned run on a single and steal by Knowles, and Zaeder’s two-bagger to left.

Aggie scored a run on Sullivan’s single and steal, and Martin’s wild throw to catch him going to third. Tech did not score in the fourth, but Aggie put in three on a single by Read, Martin’s muff of Stevens’ pop fly, Zaeder’s error on Jones’ hit and Sullivan’s two-bagger. Score, Tech 5; Aggie 6.

In the fifth Knowles was given his base, Read was afraid of Zaeder and gave him his base purposely, they moved up a base on a passed ball, and on Bunker’s grounder to Clark, Knowles scored, Clark throwing too late to catch him. Harris then put in a rattling two-base drive to right centre, on which Zaeder and Bunker scored; Harris took third as Stevens let the ball get by him. Cullen fouled out, and Sibley went out on strikes, but Fisher put in a single and Harris scored. Aggie failed to tally. Score, Tech 9; Aggie 6.

In the sixth Philpot opened with a two-bagger, Knowles got a base on balls. Zaeder went out, short to first, Bunker’s hit was fumbled by Marshall, Philpot scoring. Harris got first on balls. With the bases full Cullen cracked a single past short, Knowles scoring, but Bunker was thrown out at the plate by Jones. Sibley then put in a single, Cullen going to third, and three men scored when Burgess threw wild to first on Fisher’s hit. Aggie made two on two singles, a steal and a couple of errors. Score, Tech 15; Aggie 8.

No more scoring was done by Tech, but Aggie made one more in the eighth on errors by Cullen and Knowles and Clark’s single over third.

Martin pitched well considering that he was sick when he went on the field, several of the Aggie’s hits being very “scratchy.” Sibley, Cullen and Fisher made a pretty double play in seventh. With men on second and third and one out, Read hit a fly to deep centre. Sibley made a great catch on the dead run and lined the ball to Cullen, who, by a quick throw to Fisher, caught Burgess trying to score from third.

The score:

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<tr>
<th>Aggies</th>
<th>4 5 6 8 9 10 11 12 13 14 15</th>
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<td>Marshall, 2b</td>
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Earned runs, Tech 3; first base on balls, Read 5, Martin 3; struck out, Read 7, Martin 8; left on bases, Aggie 9, Tech 4; two-base hits, Zaeder, Harris, Philpot, Sullivan, Marshall; three-base hit, Zaeder; passed balls, Fisher 2, Sullivan 3. Umpire, Ballou.
THESIS SUBJECTS.

The thesis subjects in the chemistry course have been assigned as follows:

C. W. Albertson, "Analysis of Copper Ore by Low's Method and comparison to Old Methods as to Accuracy and Quickness."

Alex. W. Doe, "Carbon Mon-oxide in Sewer Gas."

Seymour A. Farwell, "Analysis of Mineral Water of Barre (Mass.) Springs."

Herbert E. Field, "Sulphur Compounds in Air."

W. Stanley Killam, "The Determination of Phosphorous."


Electric Theses.

H. R. Barber and M. H. Clapp, "Coefficient of Self-Induction."


E. A. Copeland and J. W. Thayer, "Non-metallic Resistances."


H. S. Davis and F. E. Gilbert, "Log Angle."

Post Graduate Theses.

M. C. Allen, "Long Distance Transmission of Power."

SHOP ELEVATOR.

The hydraulic elevator at the Shop has recently been equipped to run by compressed air, pump, steam pressure or city water, the first three being merely for experimental purposes. C. W. Barton and R. H. Taylor are now running a comparative test, using the pump with electric motor, and the air compressor, using motor. After this test A. W. Walls and A. W. Howe will run a test using steam, supplied from the boilers at the Salisbury Laboratories, as a motive power. The elevator thus equipped, to run with four independent methods, is a complicated piece of mechanism and was designed by Mr. Cole. The results of these theses should be valuable in determining the comparative cost of running elevators.

ACCIDENT AT THE LABORATORY.

F. L. Stone, '95, while starting the gas engine at the laboratory, Saturday, April 27th, met with a serious accident to his foot. In giving the engine the few turns necessary to start it, his foot was caught between the crank pin and the bed cutting a deep gash and breaking the bone. He was taken to the City Hospital, and the wound was dressed. It will be many weeks before he can use the injured member, but is fortunate in not having to lose it.

'96 AFTERMATH.

The board of editors of the '96 Aftermath, held its first meeting Tuesday evening, April 30th. The board consists of Editor-in-Chief R. Sanford Riley, Secretary Frank E. Knowles, Business Manager Chas. F. Vaughn, William H. Cunningham, John C. Tilton, Chas. F. Leonard and Fred. D. Crawshaw. The general work of the board was outlined and assignments made. Many new and original features are to be introduced.

TENNIS ASSOCIATION.

The annual meeting of the Tennis Association was held in Room 13 Saturday noon, April 20. It was voted to limit the membership of the club, owing to the insufficient number of courts. The general plans for the season were discussed and the following officers elected: President, J. W. Thayer, '95; Vice-President, R. E. Fish, '97; Secretary and Treasurer, H. L. Daniels, '97; Directors, G. O. Sanford, '95, Philip Goodrich, '96, and F. W. Whitemore, '98.

SOPHOMORE BANQUET.

The Class Holds Its Second Annual Dinner.

A year ago the class of '97 surprised the upper classes by departing from the old custom of reserving all social spirit till "Half Way Thro'" and then manifesting it all in the one social event of "Tech" life. As a substitute the "Annual Banquet" was instituted, which seems to be better adapted to the four years course, which '97 is the first to try. It did not occasion as much surprise this year, however, when the "Telegram" announced on the morning of March 21st that, on that evening, the class of '97 would hold its Sophomore Banquet at the Lincoln House.

It is needless to say, that the class was indignant at this announcement after so many precautions had been taken. The men also became anxious to know whether '96, with its historical
"battle-axe," would interfere, or whether the President or Toastmaster would be abducted. Their anxieties were unnecessary, as at 8.30 P.M., when the members began to assemble at the Lincoln House, no one molested them and the President and Toastmaster were both present.

At 9 o'clock the class sat down to the sumptuous tables, which were arranged in the form of a T. In the menu card no attempt was made to compete with the menus of "Half-Way Thro'" fame. Nevertheless, the designer of the card took the liberty to represent, in one corner, a student half-way up a flight of stairs, reaching for the long-cherished "sheep skin." In the lower corner of the front page there was a neat drawing of Boynton Hall, the tower of which was surmounted by a '97 banner. At that hour the second page of the card was of most interest to the class, and it is here reproduced.

**MENU.**

Bluepoints.
Mock Turtle.

Celery.
Boiled Fresh Salmon.
Saratoga Potatoes.
Roast Young Turkey, with Cranberry Sauce.

Tenderloin of Beef, with Mushrooms.
Escaloped Oysters, a la Francaise.

Apple Fritters, Glace au Rum.

Currant Jelly.
Charlotte Russe.

Assorted Cake.
Nuts.
Vanilla Ice Cream.

Fruit.
Coffee.
Cigars.
Raisins.

At 11 o'clock chairs were pushed back and, after a few remarks, the toastmaster, H. H. Morse, introduced A. W. Merchant, who responded to the toast, "The Class." The '97 orchestra, composed of Messrs. Dana, Merchant, Whitney and Eames, then rendered a selection. The next toast was responded to by R. E. Fish, whose subject was "The Powers that be, who rule our Destiny."—The Faculty. The other toasts were, "The Modern Eve," by H. S. Lancaster; "Class Athletics not Dead but Sleeping," W. D. Edwards; "Our Recruits and Deserters," R. A. Barnard; "'97 on the Glass Railroad," G. W. Throop. During the evening Mr. Whitney gave a flute solo, and Messrs. Lamson and Dana sang several songs.

After an enjoyable hour of card playing and college songs, the class adjourned to "Tech" hill, and, having carried out several petty jokes, disbanded with a

Rah! ho! rah!
Rah! ho! rah!
P. I. '97,
Rah! rah! rah!

---

Breathes there a man with soul so dead
Who never to himself hath said,
As stubbed his toe against the bed,

??+++??+++??

—Ex.

**TECHNICALITIES.**

E. N. Benchley, ex-'97, who entered West Point last July, ranks first in three of his studies and stands second in his class.

The Prof. are beginning to wonder whether we came here for an education, a show, or baseball.

A meeting was held in Room 13 Saturday noon, April 20, for the benefit of those intending to train for the spring games. Captain Allen made known his plans and urged the men to do justice to the training table.

Stanley Walls, until recently employed at the shop, has gone to his home in Nova Scotia, owing to ill health. He will remain there till fall.

Several additional machinists are now employed at the shop owing to increase in elevator work.

That was a rather dark-blue outlook which Prof. Kimball painted before the '96 men who intend to take the electrical course.

Daniel F. O'Regan, instructor in Chemistry, whose leg was painfully injured while dismounting from a horse in the Easter recess, is once more at his post.

The bridge and tower at Institute Park will soon undergo their annual misrepresentation, as '98 will shortly sketch out of doors.

Thesis subjects of '95 are all selected.

Ninety-Five has 24 electrical engineers, 12 mechanical, 6 civil, and 8 chemists.

Several '98 men have been warned in chemistry.

The Freshman Pattern course in the Shop is nearly finished.

"The Inventions, Writings and Researches of Nikola Tesla" is a book in great demand among the electrical enthusiasts.

The pump built at the Shop by the class of '93 is being redesigned and reconstructed by two of the Senior class.

Although the Class of '97 has always been considered slow in athletics, were the success of the burlesque to be apportioned according to classes, '97 would receive its share of the credit, as it contributed liberally to management, chorus, cast and ballet. While the class has not a large number of athletes it is apparent that it has an athletic interest.

The coal shed in the rear of the engine room at the Shop, which has long been an eye-sore, has been repaired and now presents a much neater appearance.

Grading about the new buildings has been progressing rapidly and the buildings now show up to good advantage.
GOSSIP OF THE TRACK.

The Worcester High School and Academy began training at the Oval last Monday for the Interscholastic Games, which take place June 8, on Holmes field, Cambridge.

High School is reported as being very strong in the track events, but weak in the field. The Academy stands a good show in the field events.

Daniels, ’97, is showing up well in the quarter and two-twenty.

Goodrich is running a mile in good form.

Johnson, ’98, rides a bicycle. He will be heard from later.

Brown, O'Connor, and Hitchcock are running the hundred in style.

The attendance at the Oval has been very fair. The show being over, a much larger number will go down every evening. Special rates may be had from Mr. Eugene Whipple.

Barbour, Vaughan, Ross, Warren, and Reed are a few of the ’96 men who are down every night.

Captain Allen is running in his old-time form.

Brigham is throwing the hammer and putting the shot better than ever.

COLLEGE NOTES.

Brown's baseball schedule consists of 30 games.

The Hasty Pudding Club of Harvard recently presented the opera “Proserpina” before a large and enthusiastic audience in St. James’ Hall, New York City. The performances were repeated last week in Boston.

Boston Tech recently held its Junior Promenade. Members of every class were present.

Extensive changes are being made in the interior of the Delta Upsilon Fraternity house at Amherst.

Prof. John F. Genung, whose Rhetoric is used in the Tech, has been elected president of the Amherst Young Men's Club.

James Dwight Dana, Ph. D., LL.D., professor of mineralogy, geology and natural history in Yale, died April 14, at the age of 82. He was a member of numerous scientific societies at home and abroad.

The average yearly crew expenses at Oxford are $2,500.

The University of Chicago will soon erect the Haskell Oriental Museum, costing $100,000. It will be the first entire University building in the country to be used as a repository for Oriental relics.

The Columbia freshmen have decided to organize a permanent baseball team.

A new publication, called the Yale Scientific Monthly, has recently appeared at the Sheffield Scientific School.

W. E. S.

The next regular meeting of the Washburn Engineering Society will be held in the Salisbury Laboratories, on Monday evening, May 6, at 8 o'clock. Dr. Mendenhall will address the Society, his subject being, "Measurements of Precision."

A DELAYED LENTEN MEDITATION.

Wrapped in the deepest devotion,

They muse while the choir sings

"How beautiful are the feet of those

Who shall good tidings bring?"

But as they list to the voices

That warble clear and sweet,

The choir seemed to be singing

"How beautiful Triby's feet."

Brunonian.

HER ANSWER.

I vowed on my knees that I loved her,

Asked for her heart ere I went;

But she said that really she couldn't,

Because just at present 'twas Lent.

Brunonian.

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