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EDITORIAL.

WHEN the result of last May’s meeting of the Intercollegiate Association is brought to mind, a big, black "if" looms up to explain the rather poor showing made by the Worcester Tech.

However, there is no use now in formulating idle conjectures as to what might have been. The pennant was fairly won by Dartmouth, and the best that can be done is to profit by the experience gained and hope for better luck next spring.

“Luck” is a poor word to use in this connection. It implies that chance is responsible for the outcome of these annual contests. This supposition is far from the truth. Only by the most rigorous training and the most intelli-

gent head-work can a showing be expected to be made against the trained teams from the other colleges.

Dartmouth is entitled to much credit for the way in which she maintained her reputation in the athletic line. It was a clear case of “laying low and saying nothing” on her part, and it made victory so much the sweeter. And after the pennant was won, too, her representatives “set ’em up” in irreproachable style and in various other ways showed themselves most magnanimous victors.

By these and other touching marks of esteem the Dartmouth boys have endeared themselves to their associates in the league, and one can only wish them the hearty enjoyment of their well-earned laurels.

WITH the opening of the fall term another season of foot-ball will begin and in another column of this issue will be found an article discussing the prospects of the new eleven and its chances for success. We wish to emphasize here the fact that, in order to be successful, foot-ball must be properly supported. There is much room for improvement in the attitude of school in this respect. It ought to be made possible for the manager to close the season without an alarming financial deficit. It ought to be possible to find a second eleven on the field of practice every afternoon under the leadership of a
...competent captain and ready and eager to play with the first eleven. It is not asking too much to request a large attendance of the school at every game played with rival organizations. And when witnessing a contest the fellows ought to understand that hearty, organized cheering acts as a great stimulus to the team. In a recent issue of the Harvard *Crimson* there appeared a letter from a graduate declaring that the loss of one of the ball-games with Princeton was due, not to the inability of Harvard to play better ball than their opponents, but solely to the fact that the supporters of the nine stood mute and glum around the diamond and declined to indulge in any but the most half-hearted cheering. There is no question of the efficiency of judiciously applied enthusiasm.

Next fall's eleven will be no experiment. It can begin work with the certainty of a long and hard season before it. If, as now seems probable, a position in the New England league is secured, it must be understood that the hardest kind of practice is necessary in order to make a creditable showing against the other colleges. And this practice must be backed up by a support from the school capable of remaining unshaken by the loss of a few games.

...he says that the Salisbury Laboratories (completed the month before,) are being erected in Institute Park. This correspondent seems to have some malicious design against the Polytechnic Institute, or at least shows extreme indifference, for while he devotes columns to the Normal School and Clark University, he gives the Tech but passing notice. Had he visited the Tech, or some one connected with it, before writing the article mentioned, he might have produced something nearer reality, and have done justice to so important a feature of the city. By doing so he would have saved himself the censure of the local papers, which were not backward in noticing this evident piece of injustice.

**LETTERS TO STUDENTS.**

**II. To The Prep.**

*My dear Child:*

You are now passing through a very critical period of your existence. You are laying the foundation for a high moral character and, possibly, a low personal mark. If I can inspire you with these words to make the foundation in the first case good and strong, and in the second case insecure and weak, this will not have been written in vain. Prep. that I once was myself, I can appreciate all your anxieties and heartburnings.

You have come to the Heart of the Commonwealth of Massachusetts from nearly every section of the United States. Your infancy has been passed on the golden strand that is lapped by the western ocean or, perhaps, on the arid plains that are traversed by the bounding buffalo or the unwashed savage. Or, again, your home may be warmed by the sun and wet by the dew of West Brookfield or Paxton. It matters not,
the locality from which you come. None
the less hearty is our greeting and none
the less sincere is our friendship for you.

Your childhood has been passed in
inventing improved forms of machinery
and in reading the school catalogue.
Ever since the light of genius began to
burn within you, you have longed to
enroll your name with the young men
whom the Worcester Tech is manufactur-
ing yearly into railroad engineers, super-
intendent and pavement inspectors.
And finally you have received the tears
and caresses of your relatives together
with a railroad ticket, and have started
for the goal of your ambition. Ah!
It was indeed sad to leave home and
playmates and go away to school. No
more happy hours with the tops and
marbles! The Young Ball Breakers of
Bungtown would miss your valuable
services on third base another year.
And the girls, too! How they would
weep! Even now you think of her
smile and you are not half comforted by
a letter written on scented paper with
ink-blot and tear-stains in the lower
right-hand corner of the last page. But
I am pained to prophesy that in one
short year you will have entirely for-
gotten your childhood love. The
Worcester girl is on your track and she
will soon have you surrounded.

You have found that Worcester is
quite different from your native town.
You have never before dipped into the
wild excitement of a city with two dime
shows and a theatre. And Boston, too,
wicked Boston with its free lunch counters
and other allurements, is only forty-four
miles away. But, my child, you will be
prudent, I am sure. No doubt you have
pondered deeply over the catalogue's
advice concerning behavior. When you
went up street a few days ago and
bought a box of cigars and returned
gaily to your boarding-place with a large
and fragrant sample in your mouth, you
know you would have given worlds
for an appropriate disguise when one of
the faculty stopped you and asked the
time of day. It is little things like these
that ruin a man's personal mark and cut
off his stay at the Institute in the bloom
of its youth.

Now that you are fairly started on
your course you are worried about two
or three matters. You are anxious that
you will not "evidence decided aptness
for mechanics," perhaps. Never you
mind, my son. If you have got a good
eye for an English diagram and can tell
the difference between a factitive predi-
cate and an appositive adjective, you are
all right. The man that can make the
most sawdust and cover up his poor
work with glue the most artistically is
not, necessarily, the man who is going
to get there.

If you are wise you will get your
lessons before supper and go out every
night. It is very wearing on a student's
enthusiasm and singleness of purpose to
pore continually over his books. Go
out and spread yourself, for when the
Junior year comes you will be obliged
to grind and drudge in an awful manner.
You are playing in great luck now,
young man, and I would give all my
old shoes to exchange places with you.

There is one matter, in particular,
that I wish to impress upon you. Be
sure that your financial support of the
athletic and other interests is what it
should be. Your mere personal gain in
refusing to sign a subscription paper is
nothing compared to the good-will of
your classmates. When you look
around in the upper classes for the popu-
lar men you will not find those who in-
variably refuse to give a cent for athletics.
The valedictorian is not elected by his
fellow-students from among that number
who think base-ball a foolish mockery
or who deride the eleven as too expen-
sive. Such men may attend just as
many class ball-games and open their
mouths just as wide to give the class
yell, but 'way down in their hearts there are consciences pricking that ought to make the blood mount to their deceitful faces in very shame.

I am sure you will treasure up this advice as coming from one who has been through the mill himself and who has the kindest intentions in giving you the fruits of his experience.

Your dear friend,

C. GETTHERE.

FOOT-BALL PROSPECTS.

NOW that the field sports have had their boom and are no longer the subject of conversation, our minds naturally turn to the matter of foot-ball and a few words concerning the outlook for next fall may not be amiss. To be sure much of the students' spare time is at present devoted to base-ball, but since we were unable to put a school nine into the field, there is but little real interest manifested in base-ball outside of the members of '90's class team. Were there a prospect of raising a nine of any merit, it would be more excusable to put our time and thought into base-ball, but in the present state of affairs it would be impossible to support both a base-ball nine and foot-ball eleven in addition to our intercollegiate team. Let us then give up base-ball now that the class championship is decided and put our energies at work immediately in order to bring out an eleven which shall follow directly in the line of progress which has been made in our foot-ball interests during the past three years.

Considering the showing which our foot-ball teams have made in this time the pleasing change cannot be overlooked. Of course much is due to the fact that in Capt. White the team had a man who thoroughly understood foot-ball in all its details, but there was the additional impetus, which counted for a great deal, that the students were all completely in earnest and gave their most hearty support. The success of our team next fall will depend upon every man in the school; for if he cannot give his aid by practicing with the players he may at least contribute money toward defraying their expenses. The Worcester Tech has hardly been heard from in regard to foot-ball until during the past season and remembering this fact we may count our beginning as a grand success. Last fall we commenced with scarcely a player who had ever met an opponent in the game other than among his own school-mates; yet remembering what this eleven did by hard work and efficient management we may well feel elated over our prospects for the coming fall.

The greatest blow to foot-ball was received with the report that Mr. W. T. White is not certain of returning next fall and, in case he does, will not be able to assume the management of the team to which position he has been elected. However, no action has been taken upon his resignation and it is still hoped that we may have the benefit of his services which have become so nearly indispensable. Mr. White is a man of many friends, is well known among foot-ball men in other colleges and has a remarkably concise understanding of the game in addition to being himself a good player. However, it is not at all probable that he will play another season even should his health permit him to assume the management. This brings us to looking at the individual players and the probable make-up of next year's eleven.

White's strongest position was undoubtedly quarter-back, as proved by the last few games which he played. With White laid off on account of health and Allen, '89, graduated, this place must be filled by a new man. Among the candidates for the position are Morgan, Larchar and C. F. Treadway from '90, and Needham, '92. Treadway will be
the only man left who has ever played quarter, even on a class team, and for that reason is the only candidate whose strength can be estimated. In case none of the men prove themselves capable, the position will be filled by Rice, '90, whose experience last year has shown him to be worthy of a place back of the rush line.

For full- and half-backs there are but few experienced men and the indications at present are that this will be the weakest part of the team. We have Capt. Lake left, whose playing needs no comment, still, the game should not rest upon the shoulders of one man as it did too many times last year. Tucker, '92, won great laurels for himself on the Academy team last fall and will be, next to Lake, the man for full-back, in case he does not play in his old position as end rush. If any one else proves able to play full-back, Lake himself will assume his old place as right half-back where he did such remarkable work last fall. For half-back we shall also have Rice, '90, to depend upon if his services are not required at quarter.

Rockwell, although never on the school team, has done good half-back work for his class which will not be overlooked in making up the eleven next fall. Dawson, '91, did as much as any man in the line toward the success of the team last season and is one of the possible men for half-back. For centre and guards Allen and Crosby are both old players and are more than likely to remain in their places. Crosby's work at the Wesleyan game last fall showed that his strongest place was as guard, and Allen as centre rush has the advantage of long experience. Rice, '91, who was substitute last year, may come in for a place as guard and Reinbold, next to Allen, is a safe man for centre.

For the remainder of the rush line Gilbert and Bartlett, '89, will be greatly missed but in case Churchill returns next term there will still be four of the old men left. It is strongly probable, however, that Rice, '90, and Dawson will be needed behind the line; this leaves only Follett and Churchill to fill the line, but several new men are already spoken of for these places. Among whom are Morgan and Larchar, '90, and Tucker and Needham, '92. Besides those already mentioned there are several other men who should be counted as candidates, the best known of whom are Barnard and Allard, '90; Eddy, Taylor, Whittaker and Perham, '91; Southgate, Parks, Miller and Freed, '92.

These names mentioned include in all seven old players at least, who in all probability will play on the next fall team. Several of the other candidates have played on lesser teams and are known to have many strong points. Of the class to enter next fall but little can be said but it ought to furnish at least a few men who may strengthen our foot-ball material. In reviewing these facts the prospects look very bright for a stronger eleven than we have ever had before and with White and Lake at the head we need not fear as to the management. A series of class games will be arranged to commence immediately at the beginning of school and from those the relative ability of the men can be more easily determined. At least we are assured of enough tried material to steady the team and a better set of men to choose from could hardly be asked for.

So much for the team and the men who are to make it up. Now let us take a look at what it may do. Last year, as has already been said, we were practically making a beginning and were unprepared for any important step, but before the close of the season the need of belonging to some league became painfully evident. There are several propositions on foot in regard to this matter, but the latest and most promising seems that we may be allowed to
enter the N. E. league. Foot-ball men at Boston Tech and Dartmouth have expressed a desire that we might be granted admission,—in fact, we have yet to hear of any serious objections being made although the subject has been discussed with several members of the league colleges.

It is rumored that some of the more eastern colleges consider Stevens Institute as too remote to be an acceptable member and express themselves in favor of the Worcester Tech. Be this as it may a petition should be made in due season and no pains be spared to secure our admission. Another proposal made in case the former should fail is to organize, if possible, another league in which Trinity, Brown, Tufts and perhaps other colleges should be invited to join.

The idea of engaging in practice games with Harvard and Wesleyan was a good one and will probably be repeated again next fall. A very worthy scheme which Capt. Lake proposes to carry out is that a second or substitute team be selected from all the classes and games for this eleven be arranged with Worcester Academy, St. Mark’s, Groton and other local teams. This will keep the men in good training and greatly increase the interest of the whole school in football with but little extra expense.

An unlimited amount of space might be devoted to this article, but it would only prove that which we all know, namely, if we fail in foot-ball next fall it will not be for the lack of players but for lack of support.

WHAT CORNELL IS DOING.

To the editor of the W P I:—

Your request for a letter from Cornell for the June number of the W P I is at hand, and I am only too glad to be able to fulfill your wishes, for too little is known in the east about our University, which ranks among the larg—
est in America, and which is destined to lead all others. To the W. P. I. student, probably the technical courses of the University would be most interesting, and these are, indeed, of great importance, embracing fully a third of the students here. The various other departments, however, are kept up to a high standard, and in the breadth of our curriculum, the number of departments and the strength of the Faculty, Cornell is surpassed by no school in America.

As regards our connection with other colleges and the world in general, little can be said, for we are almost isolated from them. In the heart of the Empire State, and with five railroads centering here, we are still far from all the trunk-lines and are distant from all colleges except Hobart. As a result, athletics are dead here, and the only thing in which we take any pride, is our eight-oared crew, which will make its début at New London in June. The refusal of both Harvard and Yale to give us a race shows that neither of them have forgotten their defeat at our hands some dozen years ago.

Society at Cornell is of the best, twenty fraternities, and the hundred fair damsels at Sage College, furnishing the students with delightful company. The surrounding country is of a very romantic nature, Cayuga Lake and the many gorges in the vicinity furnishing a beautiful region for the lover of nature to satisfy his longings after the beautiful, and from the appearance of the lake, dotted with boats, and the deserted appearance of the campus on fine afternoons, even a casual observer will note that Cornellians make the most of their surroundings.

One of the new features of the University which has attracted much attention the past year, is the School of Journalism, which, notwithstanding the laughter and sneers cast at it, has proved a success.
To very few are the real workings of the school known. The idea of its originator, Prof. Brainard G. Smith, is, that the young man who desires to take up newspaper work may learn a large part of the routine work of a reporter or editor by doing this work under the eye of a competent instructor who has filled these positions on some paper. The school also brings out the fact as to whether a man is adapted to the profession, and will perhaps save some young fellow several valuable years of toil, which would otherwise be spent in vainly trying "to become an editor." The first class, which numbered nineteen men from the Senior class, and Juniors who were connected with the college papers, was organized as a staff of a metropolitan daily, under the direction of Prof. Smith, and after a few talks on the duties of a reporter, and the various editorial positions, they were assigned work, as if on a regular daily. The copy was looked over by the professor, criticised, corrected and instruction as to minor duties of editorial-chief was given. Locals, telegraphic news, leaders and headlines were all worked up, and the college papers were so thoroughly criticised that a marked improvement has resulted. It was often amusing to watch the expression on some young editor's face, as Prof. Smith keenly dissected one of his pet articles. The class became very popular and next year the course will be lengthened, and the class will be much larger. The editor-in-chief of the Daily Sun recently accepted a fine position on a western daily, and several other members of the class have received enticing offers.

The Mechanical Department of the University, which I have previously mentioned, is embraced in what is known as the "Sibley College of Mechanical Engineering and the Mechanic Arts." This college, founded by the late Hiram Sibley, of Rochester, is divided into three principal departments: Mechanical Engineering, Mechanic Arts or shop work, and Drawing and Machine Design. In the first department, theoretical and experimental engineering is taught, the former by lectures and textbooks, the latter by work in mechanical laboratories under the direction of skilled teachers. The department which includes shop-work is carried on in a manner very similar to that of the Washburn Shops, wood-working and pattern-making being followed by forging, moulding and foundry work, and ending by the student making for himself a complete set of tools, and if possible a part or whole of some machine. Free-hand and mechanical drawing form important parts of the course, and the instruction given is of the best.

The course in Electrical Engineering is probably the best given at any college, and its popularity is shown when one knows that more students graduate from that course in the class of '89 than from any other course in the University. For graduates, courses in Marine, Chemical, Mining and Steam Engineering are furnished. A specially interesting feature of the Sibley work is the course of lectures given during the year by the most noted men in the profession. Another feature, which has attracted much attention of late, is the Inspection Tours, taken every Easter recess, when parties of students, under the direction of instructors, pass an enjoyable week in visiting the well-known industrial centres and inspecting their great factories and shops.

The buildings occupied by Sibley College form the northern boundary of the campus. The main building, which, with the shops, form a quadrangle, is one hundred and sixty feet long, forty wide and three stories high. It is occupied with fine museums, draughting and lecture rooms.
The work-shops consist of a machine shop, a foundry, a blacksmith shop and a wood-working shop. They are forty to sixty feet long, forty wide and are finely lighted. A new two-story building, one hundred and sixty by forty, contains the experimental department and upper-class draughting rooms.

Three hundred students can be accommodated and at present 275 are registered in the M. E. and E. E. courses. Prof. R. H. Thurston is at the head of Sibley College, and he has a strong and able corps of assistants. The whole college is run on the principle of a well-regulated factory and the work done by the students is closely supervised.

Not being connected with this department of the University, I cannot go into detail as regards equipment, nor as to the time required of the students in the shops. The University spares no pains or funds to have Sibley College at the top, and its museums and models are all the best to be obtained.

I might speak at length of the other departments of the University, and I should like to describe to you our campus, the most beautiful in the world, but examinations begin in three days, and I have already taken up much space, so I will close by extending a cordial invitation to any of the "Techs" to visit Cornell, and see for themselves our beloved Alma Mater.

Yours,

LOUIE E. WARE.

Cornell University,
June 3, 1889.

THE TECH ORCHESTRA.

All of our readers are probably aware of the custom which the school has followed for so long a time in regard to class suppers. Every class has had a banquet at the end of the first half of the second year, and, as next to graduation itself, this event is considered the most important during the course, the classes all strive to make the affair as memorable as possible, either by an elaborate supper, or by some feature in the entertainment peculiar to this particular supper.

We learn from the committees having this affair in charge, when the class of '90 were preparing to celebrate, that they intended to make this half-way supper the most memorable in the history of the school, both in respect to supper and entertainment.

The committee on entertainment is the one with which this article has most to do, so we will omit anything which might be said in the way of praise concerning the others. This committee, which first met sometime in December of last year to decide upon what could be done in the way of a musical programme, were at first content with forming a string quartette, consisting of three violins and a violoncello, and a banjo quartette. But upon investigating matters the committee found so much musical talent in the class that they aspired to form a complete orchestra from class members alone, with the string quartette as a starter.

This idea was thought to be quite a novel one, and although it was conceded to be quite difficult to form a complete orchestra from a class of only forty-two members, yet the committee went to work, and by unearthing musicians here and there, managed to get together eight willing aspirants for musical fame. These eight deserve considerable praise for the way in which they took hold and attended rehearsals, for it is no small matter for eight amateurs to play together, after their instruments have been a year and a half in the obscurity of some attic.

At length arrived January 23, the critical night which was to be made noteworthy by the first appearance of this hitherto unknown organization. Nothing was known of this new depart-
ure, for it was clothed in a deeper mystery than a Greek letter society. When the time came for the first overture, the following persons were seen fingering their instruments with a nervousness which betrayed the fact that this was a non-professional organization: first violins, Edward H. Rockwell (leader), George H. Nutt; second violins, Harry P. Davis, Thomas T. Allard; ’cello, Edward S. Frary; cornet, Stanley H. Rood; trombone, William L. Smith; piano, Charles S. Cook.

As the sweet strains of the strings blended with the full tones of the wind instruments, and swept on in harmony to the close, so the looks of astonishment increased until the end, when the approbation of the remaining members of the class expressed itself in deafening rounds of applause, which seemed to indicate the success of the orchestra. The remaining numbers of the programme were rendered after the supper, but these did not finish the work of the musicians, for the dancers of the class called for a repetition of the famous “Auf Wiedersehn” waltzes, and when this was granted, the waltzers seemed to enjoy its inspiring music with as much zest as if it proceeded from the efforts of the Germans.

Those who went home by way of the Telegram office in the morning, read that the supper was a great success, and that the “orchestra did very creditably indeed on its first appearance.”

Its first appearance was enough of a success to warrant its continuance, and so the rehearsals were kept up.

In order to strengthen the organization, two members of the Senior class were added—Mr. Baldwin, flute, and Mr. Ball, cornet.

With these additions the orchestra assumed quite respectable dimensions, and deemed itself prepared for engagements.

The next engagement was at the Old Folks’ concert, given by the Garfield Literary Society.

Among the pleasantest things which the members of this organization will remember, was the party given by Mr. and Mrs. Rebboli, mainly to members of the orchestra, and as the instruments were taken along too, the evening passed off very pleasantly indeed, enlivened by vocal music, as well as orchestral. A few weeks later, at Piedmont church, a number was rendered in a miscellaneous concert.

Perhaps the most interesting event connected with the history of the orchestra was that which occurred on the evening of February 21. The banjo and guitar club, together with the orchestra, had been procured to furnish music at the Odd Fellows’ fair in Whitinsville, on this evening, and it was with expectations of considerable fun that the boys started on their way in a large covered ‘bus, filled with banjos, guitars, fiddle-boxes, and the owners of the same.

After arrival, they were all treated to a very nice supper, and as the boys had ridden about twenty miles on a cold afternoon, it can be imagined that full justice was done to the hospitality of those who received them.

The evening was very much enjoyed, in fact so much so that when the hour of starting for home came, two of our musically inclined friends were missing from the fold, due, no doubt, to the attractions of some country beauties. They appeared however just in time to save themselves from getting left.

Since that time the orchestra has played at the Old South, and at the last engagement, April 2, at Plymouth, it played for the grand march of the carnival of trades, and also gave some selections independent of this, which seemed to be appreciated. After this it was deemed advisable to disband until next fall.
Although Baldwin and Ball leave us, being in the graduation class, and Frary, the Fritz Giese of the orchestra, has retired to his home, yet there is considerable undiscovered material in '91 and '92, which it is hoped will be brought forth next fall.

If nothing happens to prevent, it is intended to make the orchestra of next year an improvement over the first attempt.

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NINETY’S BALL TEAM.

THE base-ball championship of the school for the season of 1889 has been decided, and, for the second time in its history, the class of '90 decorates its invincible champions with the wreaths of victory. Honestly and squarely won has been the victory this year. Five straight games have left no doubt as to which class was entitled to the coveted bits of ribbon. Last year the series ended in a wrangle which was never satisfactorily settled, although '90 was awarded the prizes on a technicality brought about by the refusal of Billy Jewett’s veterans to play off a postponed game.

This year the victorious team has been better organized than ever before, and, although it is quite evident that there is lots of room for improvement, the playing has been more systematic, and a less tendency to play for individual records has been exhibited.

The batting of the team has improved wonderfully. Last year after the nine had practiced assiduously in the rink building all winter, it was found, when the attempt was made to play in the open air, that the enervating influence of roller-skates and Mechanic street fluids had reduced each player to a point where it was quite impossible to hit a ball of regulation size. The rink idea was abandoned this season and some solid work put in under the azure dome of Nature, with far more satisfactory results.

Early in the spring it was seen that the nine were playing good ball, and, sweetly confident of success, they procured suits, by means of which a picturesque appearance on the field was secured. The obtaining of a mascot later in the season gave the '90 team a standing in the community which it rightly deserved. During the progress of the exciting games which were played with '89, it was not an uncommon sight to see West Street filled with the carriages of the élite of Worcester, and on several occasions representatives of the haut ton of the city watched the exciting games with ardent pleasure from the stone wall on the field itself.

The record given in these columns a month ago credited '90 with three games won out of three played. On May 13, the defeat of the Preps by a score of 25 to 5 strengthened the Middlers’ hold on the championship, and the decisive victory of May 18, when '91 was beaten to the tune of 27 to 20 made the laurel wreaths an assured fact. It was expected that the Juniors would give the Middlers a much harder struggle than they did. They were very confident of winning and it was even whispered about the school that '91 had gone so far as to hold a class meeting and vote concerning the disposal of the badges when they should have been won. But a base-ball prediction, like the counting of chickens before they are hatched, is an uncertain thing, and subsequent events showed that such a conclusion was arrived at rather prematurely.

There have been but few changes in the team since it was started at the beginning of the season. The same nine men have played in every game, with an occasional shifting of positions. The following tables of records are based on the five games that won the championship, comprising two victories from '89, two from '92 and one from '91.
BATTING RECORD.

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In run getting, Rice has 23 to his credit; C. Treadway is next on the list with 21; Rockwell has made 16; Crosby, Barnard and Lake have 14 each, and Morgan, F. Treadway and Cook have crossed the plate 13 times apiece.

A factor of the scores that does not appear in the general averages, but the influence of which is undoubtedly felt, is the mascot. Ever since little Chester Howe appeared in Prof. Sinclair's calculus class wearing his orange and black striped cap, his status was defined and there was no need to search longer for a Bettina, even if Chester was not of the same family as Milton Aborn's Bettina, Marion Chester. His presence on the field during the class games has been a sure omen of victory for '90, and when he accompanied the nine to Millbury, June 1st, another victory would have been certain but for the fact that Harry Allen had cast a spell about his old Tech associates that was too deep to be shaken off.

THE NEW PET OF THE TOOL-ROOM.

The precision lathe which was bought for the shop several months ago and set up in the tool-room, now has its full equipment of counters, belts and treadles, and is ready for its intended work.

The machine is a product of the American Watch Tool Co., of Waltham, and lest our readers might be suspicious, we will here state that this article is not an advertisement. With all its attachments it is a complete lathe and universal milling machine, and indeed, with a few alterations, this paragon of usefulness would become a planer and a drill-press. However, not every machine is complete, though it may be so to the eye of its inventor, and we must take them as we get them. The machine in the tool-room has all of the attachments for the 1888 style with the exception of those for cutting threads and gears; the latter attachment is dispensed with, as the shop, being now busy on elevator work, will not give its attention to the manufacture of watches, though there is a possibility that a special course in that department of the mechanical arts may be added at some future time.

A few details concerning the machine will be given so that those of a mechanical turn of mind may form some conception of this product of human ingenuity and thought. It is arranged to be mounted on a bench and the bed, 32 inches in length, rests on a standard at either end after the manner of plebian lathes, the distance between the two centers being 14 inches and the swing 7 inches. The cone pulley on the headstock has speeds with diameters of 4½, 3½ and 2½ inches and 1½-inch faces.
There is a flange on the large end, in which are two rows, one of sixty holes and the other of forty-eight, which are used for indexes. The pulley is reversed in its position, so that the front bearing standard may be made stronger, and so that the index pin may be attached to the back standard where it is more conveniently operated. The tail-stock does not differ from that of an ordinary lathe, but the tail-stock spindle is graduated so that its motion may be read to a very small fraction of an inch. In this respect the machine is a very good micrometer caliper. The slide-rest with which the machine is provided is after the ordinary pattern with indexed swivel; and when the thread-cutting attachment is used, connection is made directly with the slide screw of the rest.

So far as possible all the fixtures are fastened to the bed by a bolt-and-cam binding arrangement, so that no time is lost in turning nuts or screws.

The attachments are numerous and a fine cherry cabinet with glass doors has been made to contain them. One which quickly catches the eye because of its elaborate polish and scraping is the centering rest, while not far from it, and equally attractive, repose the inside and outside grinding devices. Stretching across the back of the cabinet is a set of hardened wire chucks for wire ranging in size from the smallest to \( \frac{3}{8} \) of an inch in diameter. In the foreground, on the shelves, are informally arranged the rests for chucking and hand-tooling, interspersed with stepped chucks, drill-plates and centres. Under the bench is a set of four treadles for manipulating the direction and speed of the power by means of a three-speeded counter-overhead. In short, motion of a person operating the machine is reduced to a minimum and all danger ordinarily incurred in shifting belts is avoided.

Inquiry at the tool-room failed to elicit any information regarding the purpose of the machine or its necessity at our shop and the same opinion prevailed among the chiefs of the machine-room, so that the reader will be obliged to fall back on his imagination if he has asked the question himself. However, the writer thinks that there are uses for it. First, it can be used for some of our very small work which is generally done on speed lathes. Second, students can be taught the proper use of very nice tools by working on it and not injuring it. And third, it will serve as an object lesson in ingenuity, and as a specimen product of skilled labor.

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A CHANCE FOR REFORM.

TO THE EDITOR OF THE WPI:

WITH the approach of Commencement comes a great amount of extra work in the way of finishing up theses and caring for a thousand-and-one odds and ends which have been neglected during the course. This extra work falls no less heavily upon the shoulders of the Faculty than on the students, and each year shows the same thing with increasing emphasis, that although all the professors have their time fully occupied yet there is one department in particular where the amount of work crowded upon one man is simply oppressive and out of all comparison with that required of the remainder of the Faculty. I refer to Civil Engineering, a course which comprises the principal work of nearly one-fourth of all the students, and in all its branches requires constant supervision and instruction, yet one man, with no assistance whatever, is left to take charge of the three classes in this department. That one man should at the same time be required to instruct the Seniors in bridge designing, the Middlers in railroad engineering and stereotomy, the Juniors in surveying and topography, while he is constantly giving aid to Seniors preparing their theses, seems
indeed a discouraging task, and the success which this department has met with, speaks highly to the credit of the gentleman in charge.

No doubt the good and universal excuse may be given that funds are lacking, but if so, why do we see so many assistant instructors in other courses which are certainly of no greater importance than this, and call for much less time on the part of the Faculty? Why this distinction?

THE N. E. I. A. A. MEETING.

EVERYONE who heard the many rumors which were going the rounds of the great number of college men who were gossiping about the sports of the afternoon, three weeks ago last Thursday morning, would surely have thought that three colleges at least of the seven represented, were destined to win the coveted pennant, so confident were the opinions expressed by leading men from Williams, Amherst and Worcester. Amherst was confident of retaining the pennant; Williams had many supporters of her boasted ability to wrest it from Amherst, while Worcester had many hopeful and devoted friends who clung to the opinion that the pennant would remain at the scene of the contest. Dartmouth men said very little concerning the outcome of the contest, and when the opinion was expressed that their team was a good deal weaker this year than last, they said nothing, and very cleverly concealed every clue to their secretly expected success. In the afternoon, however, this athletic puzzle was very effectually settled when Dartmouth led out her dark horses, and deftly captured eight big events from the much entangled predicted list of winners.

In marked contrast to last year’s cold and drizzly day was the weather of this year. Although not quite warm enough for the best of work, the air was very comfortable and an athlete could stand at his mark without experiencing that chilliness of the previous year. Every arrangement for the perfect completion of the sports had been made, and the only drawback of the whole day was the misunderstanding among contestants and officials, as to the correct starting point of the 220-yards races. Otherwise the sports, although not quite as close and interesting in many instances as those of last year, were the most satisfactory that have yet been held, thanks to the untiring efforts of President Charles W. Porter, of Amherst, and the local officers of the association. The programme was especially noticeable for its neatness and completeness, and the scoring department was quickly and carefully cared for by Harry V. Baldwin, an improvement over last year’s work that was very satisfactory to the spectators.

The association has been especially favored for the last three years by the presence of several of the Manhattan Athletic Club’s most prominent members, who have served as officers of the day. Mr. Charles C. Hughes, who refereed the sports, in the place of Mr. George W. Carr, who was unable to be present, has served in some way at every meeting that the association has yet held, as have also Messrs. George A. Avery, Gus. M. L. Sachs and Harry P. Pike. The presence of such gentlemen, experienced, by constant association, in everything which pertains to athletic games and who are all enthusiasts in athletic work, assures the success of any meeting and this was no exception, as under the able direction and supervision of Mr. Hughes the whole programme of eighteen events was finished before six o’clock. Mr. Pike, who served as starter for the track events, has served in that position at every event of the association’s contests and during the last three years has won for himself the respect of every man who has started under him. His pleasant, and at the same time strict and impartial manner at the scratch has made him very popular among New England college athletes and all who start under him have great confidence in him when he commands them at the start, and know well that it will be no fault of Mr. Pike’s if they do not leave their marks with an equal chance for success as far as the start is concerned.

The events of the day began with the trial heats of the 100-yards dash, and when Mr. Pike called the men up for the first heat all six were found ready to start. As it was the first race of the day several of the men showed considerable nervousness,
and at the word "set" Chancellor and Hare, of Amherst, immediately left their marks, and, as a penalty, received the customary set back of one yard. Chancellor's reproof made him still more anxious and he repeated his offence a second time, thus destroying all chances he might have had for a place in the final. The men were finally sent away, and Allen, whom Worcester expected to win, got his customary poor start and at twenty yards was at least two yards behind Slayback of Wesleyan and Hare of Amherst. Had he been in his old form he would have beaten them then, but his weakened knee would not allow, and Slayback won the heat.

The second heat had but four starters. Storrs of Amherst and Davies of Williams went back a yard each for false starts. Mills held his mark like a veteran and won so easily and in such good form that the Tech was elated over his probable victory and greeted him with cheer after cheer. The third heat had six starters and was won in the fastest time of the day, 10\frac{3}{4} seconds, by Williams of Dartmouth.

While these heats had been going on, Williams and Worcester had prepared for their tug-of-war trial. Worcester's team was the lighter, however, and, although it made a good showing, the greater weight of Williams told against it and Worcester was defeated by 2\frac{1}{4} inches.

When the runners were called out for the \frac{1}{2} mile, every Worcester eye was on Taylor, as he was in prime condition and was expected to make the whole field hurry. When the pistol was fired he at once took the lead and set a terrific pace for the first quarter, doing it in 57 seconds and running as prettily as one could wish, but he cut out too hot a pace and had lost the race for himself as he was at a standstill at the 100 yards mark, and Porter of Amherst and Lampson of Trinity rapidly closed on him and finished first and second, respectively. Porter's time was 2 minutes 6\frac{3}{4} seconds, exactly the same as last year's time for the same race. Taylor's graceful running was complimented on all sides, and had he used a little better judgment on the first quarter, he would undoubtedly have given Porter a very close race.

The 120-yards hurdle race was run under the new rule of 10 yards at the start and 20 yards beyond the last hurdle. The race, after the last three hurdles, lay between Scruton, of Dartmouth, and Ludington, of Amherst. Ludington was suffering from a lame leg, but won his race with about a yard to spare. For his second race, Barnard did remarkably well and should be well up with the leaders after another year's practice.

The pole vault was not as good a contest as had been expected, but was won very handily by Marshall. He had no reason to exert himself, and did not vault up to his usual form. This was Worcester's first winning and Tech colors fluttered victoriously all over the grand stand.

In the 220-yards dash the first of a series of unfortunate blunders was made. In some manner, no one seems to know how, the 220-yards dash trials were run 33 feet and 6 inches short. How this misunderstanding occurred is still a mystery, but the fact remains that it was so. Allen won the first heat from a field of three starters in 24\frac{3}{4} seconds over the short track, to the great satisfaction of his many Worcester friends. Mills ran all around the four starters in his heat and won easily in 23 seconds for the distance. The third heat was won by Williams, of Dartmouth, in the fastest of the trials, his time being 22\frac{3}{4} seconds.

The running high jump had given promise of being one of the closest contests of the day but proved to be an easy victory for Amadon, of Williams, as Ludington, of Amherst, his most dangerous opponent, was unable to complete the contest on account of the injury to his leg, received a few days before. Fish competed in the final with Amadon and Peters, of Williams. Amadon won at 5 feet 6 inches, while Fish and Peters tied for second at 5 feet 4 inches. In the jump-off, Peters won at 5 feet 2\frac{1}{4} inches. Fish's work was a very creditable performance and his jump was 2 inches higher than the school record.

The mile run was a walk over for Wells, of Amherst. He finished at least 40 yards ahead of Lee, of Williams, his nearest competitor. Worcester had no starter in this event and united with the other colleges in praise of Wells' fine exhibition.

Abbott, Randolph and Walker, all of Dartmouth, were the only competitors in
the final of the 16 lb. hammer and were first, second and third respectively. All three are in college next year.

The much talked of quarter-mile run was one of the great performances of the day. It was won by Rowe, of Dartmouth, in the very fast time of 52\(\frac{1}{2}\) seconds. Mills led for 300 yards, running beautifully, and had he not wished to save himself for the finals of the 100 and 220 yards dashes, Rowe would not have beaten him as easily as he did.

The standing high and broad jumps were as a matter of course won by Crook, of Williams. He was also suffering from a lame leg, but won his events handily and apparently without effort, as he has done for three years now. Amadon sought to take second in both these events, but was defeated by Eaton, of Wesleyan, in the standing high jump.

Dartmouth defeated Brown in the second tug-of-war trial and when Williams appeared before them for the final everyone looked for an exciting contest, and indeed they were not disappointed, for it was one of the hardest fought battles of the day. Williams won the drop by 2\(\frac{1}{2}\) inches and held it for a minute, then Dartmouth began to pull and at the end of two minutes the call was, "Williams has it by an inch and a half." In the last minute the Dartmouth team seemed to pull their opponents' cleats right towards them, so great was their effort, and in the minute pulled Williams 2\(\frac{1}{2}\) inches, winning the event by an inch. This was indeed great work and was one of the hardest fought contests and most ably won victories of the day.

In the 220-yards hurdle trials, the second mistake of the day occurred. Someone had informed Mr. Pike wrongly in regard to the shortness of the course and instead of starting the 220-hurdle trials 33 feet 6 inches from the scratch where the 220-dash trials were started, the 220-hurdle race scratch was changed only 18 feet, thus leaving the course, over which were run the 220-hurdle trials and final and 220-yards dash final, still 15 feet and 6 inches short. These facts were proved conclusively the day after the races by three members of the editorial staff of the W P I, two of whom were contestants in the 220-yard runs of the day before. The distances were all carefully measured several times and found to be just as stated above, the three scratch lines being plainly seen with the tracks made by the contestants still visible. That a complete 220-yards was not run during the day, is without doubt and that both the 220-hurdle and 220-dash finals were run over a course 15 feet and 6 inches short is also without doubt as proven by the testimony of competitors who started in the races and measured their courses the day after. With such evidence before them, those in authority can do no less than still credit Allen with the 220 yards dash record, namely, 23\(\frac{3}{4}\) seconds, made last spring, and leave the 220 yards hurdle record yet to be made.

Slayback, of Wesleyan, and Hoisington, of Trinity, won their heats in the 220-hurdle, Humphreys, of Dartmouth, and Richmond, of Brown, being second respectively and all thus won places in the final. Rockwell still needed practice and although he ran well, he could not keep with the leaders. In the final heat the race was very close between Slayback and Humphreys. The former was leading slightly at the seventh hurdle when he tripped and fell, thus giving the race to Humphreys without further effort.

Slayback, by the way, although he won no prizes, did some of the prettiest running of the day and if Wesleyan had only sent a few more representatives of his calibre, she would have had several events to her credit.

The bicycle race was a great disappointment to Worcester people on account of the defeat of Harriman. Everyone expected him to win. He led splendidly for a mile, but Delabarre's superior strength helped him to victory, and Worcester was obliged to be content with second place. The 100-yards dash final was a very close race, Williams, of Dartmouth, winning in 10\(\frac{3}{4}\) seconds, defeating Mills by about a foot. The race would have been still more interesting had Slayback been able to do his best. His injury in the 220-hurdle spoiled all his chances in the 100-yards dash, and deprived Wesleyan of her only chance for victory. Mills's effort in the quarter had been too much for him and he entered the 100 and 220 dash finals a sick man. The 220 dash final also went to Williams of Dartmouth, Mills again finishing second. Poor Mills was pretty well used up after his
noble efforts to win the three dashes single handed. His great work in winning three second prizes was spoken of frequently, and it was the unanimous opinion of a large number present, that if he had stayed out of the quarter-mile he would have won one, if not both, of the 100 and 220 dashes.

Mills's prime condition was due, in a great degree, to the ten days work which he had with John Donahue who had improved him greatly in starting and increased his speed considerably. John worked hard to make his men win and his long experience as a successful sprinter made him a great help to all the runners. If he had been eligible to start in some of the sprints what a surprise the collegians would have received!

Dartmouth men were surprised in the defeat of their man Perkins at putting the shot by Houghton, of Amherst. Perkins had been credited with 36 feet in practice but failed to do 33 feet in actual competition. Desper, Lake and Patterson were not quite capable of the task before them and none of them made much over 32 feet.

The running broad jump, which had been so uncertain before the sports, was won by Humphreys, of Dartmouth, with a jump of 20 feet 3 inches. Andrews jumped in good form, but not far enough to win.

As was expected, Ellis, of Dartmouth, won the two-mile run with ease. Nichols, Williams' representative, finished second and led Ellis a good race till 220 yards from home, when Ellis passed him and beat him on the race in. Stearns and Wires ran well for a mile, but after that were obliged to leave the leaders.

All the entries in the mile walk appeared at the start. Henderson, of Amherst, and Bradford were the favorites. Henderson led after the first half until the last eighth, when Bradford passed him easily, and, to the delight of his many Worcester friends, walked in an easy winner and won his second intercollegiate race. The competitors in this event were favored by the presence of Mr. Al. F. Copland as referee. Mr. Copland has won prizes in a great many different events and holds several championships. He is to-day champion of America at the 220-yards hurdles and holds the 100 and 220 yards championships of Canada. As an all-round runner he has probably never seen an equal and his performances are truly wonderful.

The games as a whole were not as interesting competitions as those of the year before, but the management was excellent and there were no drags. The announcing of Mr. Palmer was a new feature to a Worcester audience, and added greatly to the enjoyment of the spectators, every announcement being distinctly heard all over the grand stand. Five records were broken during the day: running high jump, quarter-mile, putting shot, running broad jump and mile walk. The 220-yards dash is not included among these owing to the inaccuracy of the course.

PERSONALS.

Prof. Alden sailed for Europe May 24th, to be away until September.

Clinton Alvord, '86, is president of the Lakeside Boat Club of this city.

H. H. Tracy, '91, will occupy the monitor's room next year, with Allen, '90.

H. D. Yates, '92, recently received a visit from his father, Capt. Yates, U. S. N.

C. L. Griffin, '88, with Brown & Sharpe of Providence, R. I., was in the city a few weeks ago for a short time.

Lee Russell, whom a severe illness has prevented from graduating with '89, will probably join the class of '90 next January.

Prof. Cutler has obtained leave of absence for a year with a view to pursuing advanced studies, either at Johns Hopkins or in Germany.

Fred. S. Hunting, '88, was married, May 1st, to Miss Hattie A. Sawyer, of East Templeton. The happy pair will reside in Fort Wayne, Ind.

Mr. William W. Bird, '87, of the Institute's corps of instructors, is now a junior member of the American Society of Mechanical Engineers, having been voted in at the last semi-annual meeting in New York city.

M. H. Murphy, formerly of '90, has removed to Kansas City, Mo., but is thinking of returning to Worcester, and entering '91 in the fall. "Murph's" many friends in '90 sincerely hope that the attractions of a western life will not prevent his return.

William B. Jewett, '88, was an interested spectator of the intercollegiate games. May
23d, and there was a far-away look in his eyes when the winner of the running broad jump took his medal with a record of 20 ft., 3 inches, just 11 inches under "Billy's" memorable leap.

Already the members of this year's graduating class are finding positions. William E. Hartwell is with J. Fred. Wilson, cold metal puncher, Worcester, and Solon Bartlett enters, Sept. 12th, upon the duties of teacher of mathematics, at the Lawrenceville, N. J., Academy.

A CHANGE OF POLICY.

During the past month the Board of Trustees of the Institute have made public announcement of a most important change concerning the future assignment of Worcester County scholarships. In brief, free tuition to students who are residents of the County is no longer to be a feature of the school. Hereafter free scholarships will be limited as follows:

I. To twenty students who are residents of Massachusetts, but not of Worcester County, in accordance with the Act of the Legislature of 1869.

II. To residents of Worcester County, not over twenty-one years of age, in proportion as the income from the Boynton and Washburn foundations shall allow. This allows only five students, who are to come from each Senatorial district of the County, to be admitted free to the Apprentice class. In each of the other classes, ten students, two from each Senatorial district, may have free tuition.

III. To students from Foxboro', Bellingham, Franklin, Medway, Millis, Walpole and Wrentham, to the extent of the income from the Hon. George F. Hoar bequest.

In making this radical departure the Trustees announce that they are influenced by pecuniary motives. The school is poor, very poor indeed, and the maintenance of the new Salisbury Laboratories, coupled with the increased expenses in all departments, would, if this step were not taken, bring financial disaster.

It is also hoped that the value of the school's diploma will be increased, and that the institution will be given a higher standing.

Comment on the change may be found in the Gazette for May 15 and 18, the Sunday Telegram for June 9, and the Boston Sunday Herald for May 19.

WORK AT THE SHOP.

The shop is busy this week and promises to be so for some time to come. Orders for complete sets of grinders from 3" to 2" have been received from Parker & Bosworth, of Cleveland, Ohio, and C. A. Turner, of Pittsburg, Pa. Thirty-six drawing stands are to be made for the new building. Three journeymen, together with the students, are constantly at work on drill grinders. The Senior lathe is being rushed so as to be ready for Commencement. Two of the new face-lathes are already completed and set up in the wood-room and the third is receiving its finishing touches. The elevator for the Salisbury Laboratories is expected to be in complete running order by June 27th.

Workmen will not be lacking during the summer. One Middler has almost 200 hours extra practice to make up, 8 are between the 100 and 150 hour limits, 9 between 50 and 100 and one under 50. One Junior is booked for over 200 hours, 6 are between 150 and 200, 3 between 100 and 150, 6 between 50 and 100 and 7 under 50. Two Middlers and four Juniors have their extra practice all made up.

THE JULY "W P I".

There will be one more issue of the W P I before the school finally closes its portals for the long vacation and this, following the custom inaugurated three years ago by the management of Vol. I., will be essentially a Commencement number. It will contain a full and complete account of the exercises attendant upon the graduation of the class of '89 and will be issued as soon after June 27th as nimble fingers can put it into type. Subscribers who shall be out of town at that time, or who shall be unable, in any way, to receive the paper at their usual address, must give their new address at once to the Business Manager.
TECHNICALITIES.

There seems to be a misunderstanding on the part of many subscribers of the WPI concerning the date on which their subscription expires, notwithstanding the fact that we have done our best to make the matter clear. For reasons which have already been explained, it was decided to change the beginning of the editorial year from September to April. This change went into effect during the present year, and Vol. V. of the WPI commenced with April, 1889, thus leaving only six numbers published in Vol. IV. The subscription price will be directly as the number of papers received, therefore those who have paid one dollar for Vol. IV. are credited on our list until September, 1889, and from these sixty cents will still be due for the remainder of Vol. V. We hope that this will explain to those who have received a bill of $1.60, that they are asked to pay for the WPI from September, 1888, to March, 1890, not to September, 1889, as they would see for themselves if they would take the trouble to read the bill. We also beg to remind several subscribers that the subscription to the WPI is always due in advance, and should at least be settled before the close of the year.

The Prep. may drink a glass of “pop,”
Without a blush of shame.
His “personal” doesn’t seem to drop,
But it gets there just the same.

Tuesday, Sept. 10, school re-opens.
Now for Bar Harbor, Newport and Saratoga.

The universal soliloquy: “I wonder how many conditions I got?”

’90’s peds don’t walk quite fast enough.
Probably they overtrain or undertrain.

Pity the poor Preps! Wood, sawdust, chisels, lathes and glue until the noon of Commencement day.

Prep. base-ball stock is at present below par, but it is hoped that by next spring it will be at a high premium.

Two more banjo players have been discovered in ’92 to swell the ranks of the school’s troubadours in the fall.

It’s a cold day when there is anything going on that the Techs are not in. They were well represented in the Dixie minstrels.

The ’90 base-ball nine have received their championship badges and taken a new mortgage on the prospective badges of next season.

Major J. W. Powers, who will deliver the annual address at Commencement, has chosen for his subject: “Competition as a Factor in Human Evolution.”

A tired feeling creeps over the faces of the local Q. T. V. men, when the late convention in this city is brought to mind. Farmers did it with their hayseed.

Middlers! That nightmare, that lengthening chain, that awful grind for so many of you is finished. If ye have survived let incense ascend to the gods.

Eighty-nine is strong on the tug-of-war,
Her sprinters can get away,
But when she tries to play base-ball,
She swims in the consommé.

Foot-ball practice is being tried to bring to the minds of some of the players the defects which they may have a chance to rectify during the long vacation.

As stated in the issue of last June, the lathe built by the Senior class will be finished by the strenuous exertions of Mr. Mitchell and the journeymen in the shop.

The April number of the Collegian, which was intended to be a special “Brown” number, and was extensively advertised as such, has not yet materialized. Can this be death?

How the populace will push and crowd and step on each other’s toes to see the “Deutsche Aufgaben” of the Middle class at Commencement! Please form in line and kindly wait patiently.

It is said that Mills intends to take a post graduate course at the W. P. L., partly with the intention of being able to get even with or ahead of Williams, of Dartmouth.

According to the professor who accompanied the last expedition which was prospecting for minerals on Millstone hill, the top of that eminence was converted into a howling wilderness.
When the present Middle class begins to discuss the tariff question next year, a gas engine of several horse-power ought to be set up to utilize the vapory product that will certainly be found.

'90's ball team played with the team from the Millbury High School, recently, at Millbury, and was done, 11-5. The High School at that place has some remarkably old and professional students.

Sepia, the bane and antidote of all Middlers, has helped to make some very pretty water-colors and we hope we are not over-expectant if we expect to see some of our number develop into artists.

Don't make up time just before commencement unless you desire to learn the art of cleaning lathes. But, by the way, it wouldn't be a bad idea for some of the mechanics to do just that thing.

The pennant was won on May 23d, The Dartmouth boys all went home tight. And they helped, too, to get us full. What's the matter with Dartmouth? She's all right.

Some of the present Junior class apparently think that the size of their mark in shop practice is directly proportional to the amount of machine oil and grease in which they take their weekly bath.

When a Middler talks about "frustrated cones," and the "outside surface" of a sphere, it is quite evident that the time spent on English diagrams and adverbs during the Prep. year is hardly sufficient.

A great commotion was caused among a crowd of Preps, the other day, who were supposed to be sketching, when from behind a stone wall was heard these words: "Professor, please show me how to sketch this."

The new building is not open to visitors, nor to students except on business. The idea is to carefully preserve it from the wanton public till the next school year when it will be determined whether we are to have a public inspection.

'90, by bad playing, which tended to make that of their opponents worse, has won the base-ball championship without having lost a game. We have to be satisfied, of course, with what we have but we wish to see the boys play ball next year.

Dix street is becoming very like the steak served by Tech boarding-mistresses during the last of the year. Fortunes change hands there every evening and that too in daylight. Some of the residents think of sending a team to Monte Cristo to represent them.

One division of '90 took the class mascot to recitations in calculus, but as the mascot didn't exert his full powers in the line of mathematics they decided not to torture him longer and hereafter they will probably be satisfied by taking him to chapel exercises.

The course in civil engineering is the proper course to take. You can work in the vicinity of the Grove-street grounds and hear "Cuddy" coach, and the patter of the Worcesters' feet as they cross the home plate. The stray balls that come over the fence are also easily appropriated.

Division A, of '92, To sketch now try their best to do. To Sunnyside they slip away, "Scrub one!" they cry. "Scrub two!" they say.

"Procrastination is the thief of time," should be posted in every Senior's room from September till he is graduated and then perhaps there will not be so much precipitate haste at the end of the year in finishing work and writing those immortal pages of the thesis.

Over in the shop they are still laughing at a Junior who has left school, but who conscientiously explained his continued absence at practice by entering in the excuse book: "Suspended on account of seven unexcused marks." That settles it. Cancel the marks and take him back into the fold.

Isn't it rather demoralizing to give each member of the mineralogical class an empty cigar box to contain his specimens of rocks? The old, familiar odor of "Concha Regionas," or "Kalamazoo Seedlings," might foster an unquenchable appetite for vice that would certainly wreck many beautiful young lives.

"Breakfast late" doesn't go for an excuse this spring. "Delayed by a freight train" has also passed away, and there is every indication that "Had an important engagement down town" will soon be on the blacklist. It is time to kick, fellows. Our time-honored privileges are being encroached upon.

A Tech was seen on the night of the intercollegiate sports wandering through
one of our principal streets and carrying a band-box labelled, "Jerusha." We will kindly thank any one to tell us if the damsels was inside, or if not, what was. We think it was a Senior who was guilty of the offence.

To Dartmouth the pennant goes this year.
Oh! how different it might have been!
It might be floating on breezes here,
Just for pinning our hopes on "Film."

Amherst and Williams and Trinity, too,
With us can join in one sad moan.
Oh! how different it might have been!
If "Dad." hadn't broken his collar-bone.

The new lecture rooms are very nice, being airy, light and spacious. It is estimated that students ought to do from 8% to 10% better in taking notes. Some say 8½% to 10½%, but more often, on the average, 5% to 15%. We can speak more accurately when we have had perhaps fifty or a hundred observations, and made a probability curve.

The board of examiners for '89 has been chosen as follows: Prof. John H. Appleton of Brown; Prof. W. A. Rogers of Colby and Mr. Charles H. Davis of this city; and on the part of the alumni, Edward K. Hill, '76, president Wheelock Engine company; Thomas H. Clark, '80, instructor in chemistry, Wesleyan University and Dr. Enos H. Bigelow, of Framingham.

They have a great scheme for transporting ashes from the top to the bottom of Tech hill. The method is this. The aforesaid substance is deposited at leisure times along the brow of the hill and then patience is exercised in waiting for a rainstorm. This comes in due time and kindly bears the old shoes, tin-cans, broken bottles, dilapidated hoop-skirts, scrap iron and, in fact, most of those articles which are the boon of the chiffonnier, to the bottom of the hill where they develop various traits in the students who have to pick their way around them.

ALMA MATER.

The Institute.
Our hearts go out to thee,
May some rich charity,
Keep thee in bloom.
Long may the hours of night,
Howl with your bonfires bright,—
May flies on you ne'er light,
'Till crack of doom.

The Faculty.

We live on Boynton St.,
We trim its beardlets up,
And on the crest,
Fornosti the West,
We haunt a youth's retreat.
Should boys on mischief bent,
Elude our president,
We all unite
To vent our spite
On those most innocent.
When Sunday comes, each pew
Contains our retinue;
We just grow fat
On rest,—and that
Is all we have to do.

The Students.

It's a mighty pleasant thing
To while away in spring
Your leisure hours in sketching with a ball;
While you early learn the use
Of a stereotyped excuse
And watch your sure descent to grim sheol.
While Preps the work is fun,
But when next year's begun,
The man who wins must get up with old Sol;
And though if well you do,
Your trainers let you through.
They line up again for blood in early fall.
Next year you're prone to cuss,
For you strike old Calculus,—
And the bitter tears that flow would discount gall;
While you don't pretend to eat,
And you learn the magic feat
Of sleeping while you work, or not at all.
But palmy days will come,
And the Senior's very run,
Who doesn't his old governor appall
By getting in arrears.
Mashing all the Worcester dears,
And obtaining situations in the fall.

John Harley.

My life is in the see and yellow leaf?
Not yet.
Will I postpone the nursings of my grief?
You bet !
Though I've been relegated to the shop,
I still can make the bark on castings hop,
And while I live each day I'll raise a crop
Of cold, wet, sweat.

Auf Wiedersehen.

Farewell, Alma Mater, you've treated us well;
May the new regulations your treasury swell;
May the clock on your tower go sprinting along,—
In time, it may get into gear with the gong.

Farewell, Alma Mater, though not all pure gold,
Your treasures for centuries may you unfold;
Alas your poor organ zum Tod ist zu gehen,
Farewell, Alma Mater, auf wiedersehen.

* [This line is published on the strength of a fourth-class poetic license which the writer holds.]
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