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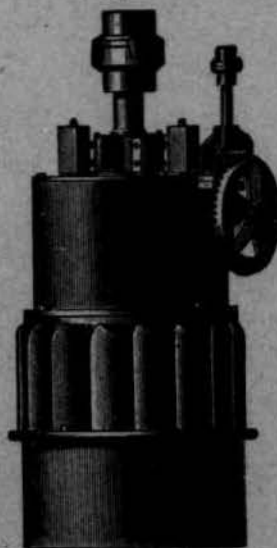
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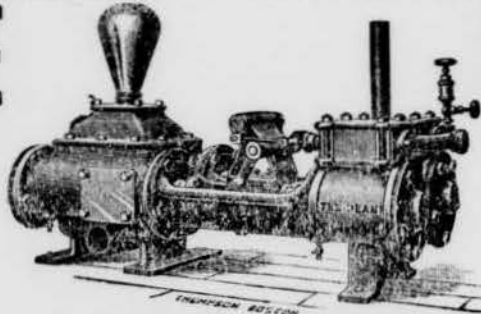
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Vol. V.

WORCESTER, APRIL 15, 1889.

No. 1.

THE W P I.

Published on the 15th of each Month, during the School Year,
and devoted to the interests of the Worcester
Polytechnic Institute.

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EDITORIALS.

IN the death of Frederick W. Fiske the W P I loses from its staff one of its brightest and most talented writers and, personally, one of the best fellows that ever attended school at the Worcester Tech. To those who have worked at his side for the past months, who have felt the magnetic inspiration of his presence and who have been influenced by his quiet demeanor that intensified his undoubted worth, the news of his death comes with a suddenness that is appalling. To think that the friend with whom you have associated day after day, whose joys and sorrows you have shared,

whose longings and aspirations have also been yours,—to think that you have seen him for the last time and that Spring will come with its bright fields and smiling flowers without bringing back his smiling face, is it any wonder that there is a feeling of despondency and that life seems a mockery?

The task of issuing a paper this month is indeed a sad one. The influence of Death is enough to fade the brightest paragraph and taint the merriest jest. With every moment there is brought to mind the coffin-enshrouded form of one of the noblest and best-hearted boys that ever honored a schoolmate with his friendship.

THE close of vacation ought to find everybody revived and ready to begin the final work of the term with increased zeal. If the student, however, has spent his vacation in weary toiling at extra practice or in wild dissipations in theatre parties, church fairs and other forms of Lenten festivities, in which his best girl has taken a prominent part, it is imaginable that these will seem a little dull and that integral calculus will be begun in a spirit which is not conducive to a high personal mark.

Be that as it may, it is certain that strong, earnest work is called for not

only in studies, but in the allied interests of the student.

The adoption of an inter-class base-ball schedule means a struggle for the class championship that promises to be unprecedented in its intensity. A good showing made this Spring in base-ball may be the means of starting out a well-equipped team one year hence to compete with our sister colleges.

The beginning of the preliminary football practice is an important event, for it inaugurates a course of training which will have much to do with the success of the eleven, according as it is entered into with the proper spirit or not.

The preparations which will be made now for Field-day will decide the position that the Institute is to take in the contest for the Intercollegiate cup. There is no earthly reason why Worcester should not make a splendid showing this year, provided the training of each contestant is thorough and complete.

The replacing of the two jumps in the list of events does not by any means signify that the cup is to be a pure gift to Williams.

The action of Dartmouth in backing Williams in her endeavor to get the jumps back can be accounted for in no way except that it was done in order to weaken Amherst's chances for winning. It is incredible that Dartmouth has hopes of getting first in those events.

It is safe to prophesy that Amherst will make a strong try this year. She has men in the running high-jump, the mile walk, the 120-yard hurdle and the quarter-mile run who are regarded there as certain winners. Every effort will be made on her part to retain the championship.

In comparison with these organized teams of trained athletes, the W. P. I. now offers but a half-trained band of men almost wholly without organization.

Before May 23 there is a great amount of training to be done. If this training is undertaken conscientiously, great things ought to come from it. True it is that the outlook in athletics is brighter this year than it ever has been or probably ever will be. It is now or never with the Worcester Tech.

Let's make an attempt this year at winning the cup that will leave nothing to be regretted.

THE action of the executive committee of the N. E. I. A. A., in replacing in the list of events the standing high and broad jumps, was a surprise to many who believed that the question was settled at the annual convention of the association in February. In that convention the whole subject had a full, fair and free discussion and the representatives of the several colleges voted, on the merits of the question and unbiassed by the personal considerations which subsequently arose, to abolish the two events. In the time between the convention and the first meeting of the executive committee, Williams, by energetic missionary work, succeeded in winning over one of the colleges to their side of the question, which was, that the jumps should still remain in the list of events. This attitude on the part of Williams was perfectly natural, for the college has a man who, barring sickness or death, is absolutely certain of taking first place in one and, perhaps, both of the jumps. Having secured a majority

of the colleges in favor of their side of the question, the next thing for Williams to do was to make a judicious use of this majority. With the convening of the executive committee we have the spectacle of its members monkeying with the constitution and modifying and altering the action of their convention. This was wholly wrong. Anything the convention decided upon could not, in the spirit and intent of the constitution, be revoked or amended by the executive committee. It is the duty of this committee "to make and carry out all arrangements for the complete success of the games," and this does not mean that it is empowered to annul the doings of a convention over which it has, by rights, not the slightest control. We do not care to discuss here the question of the propriety of dropping the two jumps. But this action of the executive committee in doctoring the constitution will, if persisted in, certainly lead to disastrous complications.

THE past fifteen months has seen an almost complete change in the spirit of athletics which animates the school. In this time the W. P. I. has joined the athletic association of the minor New England colleges, the foot-ball eleven has stepped into the college arena and tried issues with all the prominent teams and the semi-annual field-days, which formerly had no special significance, are now becoming of unusual importance.

This same period has witnessed the establishment of the new Salisbury Laboratories, which will almost double the capacity of the Institute, the erection of a new building for electrical purposes

and a change all around to modern methods of school management which cannot fail to work decisive benefits.

As a curious commentary on the above facts, the last entrance examination was attended by a number of applicants entirely out of proportion to that of former years.

Inseparably linked with the advancement of athletics in any school there seems to be a corresponding advancement in the importance and prestige of that particular institution of learning.

THE revised constitution of the Athletic Association which is printed in another part of this paper merits careful study by every member of the school. The committee drew it up evidently with the intention of preventing a recurrence of the scenes which occurred in a meeting of the Association last fall, when embryotic orators delivered impassioned philippics against measures for which the old constitution did not provide. In unmistakable language the duties of every office are plainly set forth. The secretary must keep, "in a book kept for that purpose, an accurate record of the proceedings of every meeting of the Association." This will do away with the typical secretary of the past, who has been accustomed to sit on a back seat in the meetings and take simply mental notes of what transpired, which afterwards generally proved to be worse than useless. The creation of a new office, that of "keeper," means that the property of the Association is to be properly cared for. In past years the base-ball suits, the masks, gloves, bats, balls, etc., and the foot-balls have made

a rich harvest for the one who was bright enough to appropriate them or unscrupulous enough to steal them. Now all will be changed. The directors will not be obliged to use the best part of their energies in looking up the remnants of the athletic apparatus. Certain dates are specified for the meetings of the Association and the routine business to be transacted at those meetings is detailed in cold type. The Athletic Association has now a constitution and it ought to abide by it.

LETTERS TO STUDENTS.

I. TO THE GRIND.

Dear misguided Friend:

EVERY day I see your wan face, your swollen eyes and your kerosene-wasted appearance, which inspires in my breast a deep feeling of commiseration. I know that your heart is torn by the pangs of unsatisfied desires. I recognize fully the intensity of the shock you received when the ranking system was abolished. But friend, cheer up! There are two-hundred and seventy-five original problems yet unsolved and there is a good time coming when \$75 will amply repay you for three years of unremitting toil and anxiety.

I have heard of the struggles you have experienced and the disappointments you have had. When the magazines and newspapers were teeming with discussion of Robert Elsmere, you were just dying to read the book but the thought of twenty German sentences still unwritten kept you back. A month ago, when your city cousin invited you on a sleighride to Holden and you were sure that pretty Nellie Staylate would be there, you quieted your palpitating heart and ground out ten originals that evening. When the church fair came off and you were appointed to a subor-

dinate position on the oyster soup committee, with what admirable self-sacrifice you penned a note resolutely declining to have anything to do with the consommé.

But, my dear boy, do you think that this slavish application to books will make you the man which your morbid fancy pictures as the ideal? Why not strive to attain that golden mean which is so characteristic of the successful man? Learn to combine the dogmas of your text-books with the proper amount of savoir faire. Take Julius Cæsar for example. Where would he have been without that marvelous knowledge of men and things which, history tells us, he did not obtain by a process of "grinding." It is not on record that he won the approval of his instructor in English by memorizing the whole of the "Merchant of Venice." No. When his classmates, who are now unheard-of and forgotten, were at their boarding-houses cramming for a higher personal mark, Julius was at one of the large down-town hotels, in the bar-room, hobnobbing with politicians who could give him pointers on the political state of Europe. On other evenings he would be at the theatre or the ball-room, cultivating the acquaintance of society belles who had a pull with the government. And when graduation day came, although he didn't get the valedictory, he had the sweet consolation that he knew more about the world in a week than the honor men did in a month.

Then, as a more modern example, there is Grover Cleveland. When but a child, Grover, with his remarkable perspicuity, saw that the road to the White House did not lie through a dark alley-way strewn with indicator diagrams and Chauvenet problems. Almost instinctively he realized that the broad highway to national renown passed by the beer saloons of Buffalo. And subsequent history proved that he was right.

I have been constrained by an unusual

interest in your welfare to offer you this advice, but I have a lurking suspicion that you will accept it with distrust.

I can only hope that some day these words may come home to you as a plain statement of the truth which you ignored in your young and inexperienced days. Believe me your sincerest friend and well-wisher,

CHARLES GETTHERE.

THE BASE-BALL OUTLOOK.

DURING the last two or three years every department of athletics at the Institute has taken a decided boom. Three years ago and the suggestion of a foot-ball team that would represent the school as well as the one which bore W. P. I. colors last fall, would have been declared impossible, and yet, foot-ball during the fall of '87 was a recognized stronghold in Tech athletics and the team of '88 competed successfully with Trinity, made an excellent showing against the great elevens of Harvard and the Boston Tech, buried the Amherst Aggies and would have given the Amherst College team itself a repetition of the funeral if they had been fortunate enough to meet in a foot-ball contest. Last spring the Institute Athletic Association joined the New England Intercollegiate Athletic Association and presented such a team of athletes at the intercollegiate meeting in May, that it succeeded in placing itself as fourth among seven representative New England colleges, and establishing such prestige in college athletic circles, that its team for the coming year is looked upon with great respect, while every Institute athlete is classed with the winners and much feared by his brother contestants. With such records in two of the great departments of college athletics, the Institute's record in base-ball has been far below the standard. Last year, no school team was organized, and the inter-class games were with one

exception the most miserable exhibitions of the game that have been seen at the Institute for several years. Outside of class games the playing was just as indifferent. The class of '89 sent her team to the Academy and it was beautifully defeated, while '91 received a like whipping at the hands of the High School. Such defeats as these do not do credit to the dignity of our classes, any one of whose teams should be capable of defeating such teams as the Academy and High School with the greatest of ease.

As it has been the custom for several years past to play a series of games between the classes, last spring the regular schedule was played and resulted in a wrangle which was never successfully settled, but which finally gave the championship of the school to '90. The whole series last year was very unsatisfactory from beginning to end. The lateness of the season made the early organization of the teams impossible, and the games were played with all the players noticeably out of practice. The class team of '90 was the only team that showed good judgment in practice, and their drill in the rink in the early spring undoubtedly won them the championship. This season the base-ball prospects are a good deal brighter. Instead of being obliged to go to Agricultural Park, and begin our games at quarter-past five, with scarcely time for a five-inning contest, we are to have the foot-ball field for our class games, and under the present rules, can begin our games one-half hour earlier. In addition to this the directors of the Athletic Association have instructed Manager Penniman to arrange for a schedule of two games with each class, which makes a series much more interesting to all concerned, and one in which the relative strength of the teams can be tested much more fairly than heretofore. The falsity of the test in our former series of one game with each class is seen in the re-

sult of last year's contests, '91 defeating '90, '90 then defeating '89, and finally '89 defeating '91, a strange combination of results that would probably not happen again in many trials. By the present system of each class meeting every other in more than one contest, a greater opportunity for judgment on the real merits of playing strength is given every team. Two of the classes, '90 and '91, have already organized and begun practice for this season's work and with the vacation over, the other two will soon be with them. The team of the class of '89 is weakened this year by the loss of George at first base and Nelson at short-stop. Hadley, the wily wizard from Ward II., will do the pitching and Hartwell and Allen will do all the catching. The position at first base is to be filled, but in other respects the team will be the same as last year as follows: Allen, second base; Marshall, third base; Kimball, short-stop, and Leland, Rheutan, Sessions, Penniman and Hathaway to make up the outfield and also supply the vacancy at first. The team has not yet elected a new captain, and until this is done, Hartwell, who served in that capacity last year, still retains the position. The team from the class of '90 is the only one which is not crippled by the loss of last year's men, and, under the leadership of F. W. Treadway, their newly elected captain, it ought to retain the championship the coming spring. The team will be made up as follows: Crosby, catcher; F. W. Treadway, pitcher; Cook, first base; C. F. Treadway, second base; Rockwell, third base; Rice, short stop; with Barnard, Allard, Morgan, Smith, Anderson, Pierce and Lake as candidates for outfield positions. The class of '91 has suffered the most from loss of last year's players. Crane has left school and thus the class loses a steady first baseman and an excellent batter. Metcalf is in abeyance and the man who takes his place will have to do extra fine work to equal "Mettie's"

work of last spring either in the field or at the bat. Fish was recognized as the strongest outfielder that the class had, and his departure leaves another vacancy that will be equally hard to fill. With three such players gone, the chances of the class would seem to be poor, but last fall quite a number of new men joined the class and with their ability, the vacancies will be filled to as great a degree as possible.

Dawson has been selected as captain of the team and has made out the following list of players: Kimball, catcher; Dadmun, pitcher; Phelps, first base; Whittaker, second base; Dawson third base; while Kinsley, Bacon, Booth, O'Regan, Taylor, McGown, Davis, Bradford, Hastings, Follett and several others are all candidates for keepers of the three gardens in the outer fringe of the field. The class of '92 has not yet organized a ball team, so no judgment of their work can be given, but they will undoubtedly place a good team in the field and make a good showing in the class series. There seems to be a sentiment in the school in favor of a school team the coming year. The weak point in a school team for the past three or four years has been a pitcher and while the other positions on a team could have been readily filled, the school has lacked in this very essential department of the game. The experience of the team of '87, when two of Worcester's ablest amateurs were induced to take optional chapel and April vacation during the spring months, in order to be eligible for a position on the team, did not prove popular as the expense was too great, and the debt, although it tasted good while the ball team was eating it, has lain hard on the stomach of the Athletic Association ever since and was digested only a few weeks ago. At that time Lancaster and Walbridge formed the Tech battery and as a result the Institute team was victorious over the Boston Tech team, which so elated the

Worcester boys that they finished the season without winning another game, being especially reckless as to expense and at the end of the year finding themselves considerably in debt. Of course the repetition of such a season would not tend to benefit the Athletic Association or be in any way a wise move on the part of the students, but the selection of a school team from the class teams which could play and defeat such local clubs as the Academy, High School, Y. M. C. A., Chatham Athletic Club and others, would undoubtedly be well supported and would prove an interesting feature of Spring athletics. The football field makes an excellent base-ball field and with little expense a diamond can be properly measured and rolled, making a field fully as good as the Academy grounds and much more convenient than the Park. Besides these favorable conditions the grounds can be depended upon for use at any time, as they are hired by the Athletic Association of the school. Under such circumstances a school team would undoubtedly live through a prosperous season. Taking all indications into consideration the base-ball outlook is very promising. Plenty of outside games can be arranged for the preliminary practice of any of the class teams, as the Academy and High School are ready and anxious for games if the Tech will only play them. If everyone would interest themselves in this great sport with as much enthusiasm as is shown in the support of the foot-ball eleven Tech colors would be sure to float over a victorious base-ball team, and raise the game from the low standard to which it has dropped from lack of interest. Let everyone awaken from the sleepy spell which has secured so firm a hold on base-ball interests in our school and by united effort make the standard of the game what it ought to be, an equal of that of foot-ball and general athletics, which are at the present time in a prosperous condition at the Institute.

FIELD-DAY PROBABILITIES.

IT may possibly be too early to make much of a canvass of the probable winners of Field-day, but it is certainly interesting to run over the classes in view of seeing who are most likely of carrying off the coveted ribbons. While of course most of the events are spoken for, yet there are a number of men who are naturally fitted to excel in certain events, but who for some reason have not as yet shown their capabilities. For this reason, dark horses quite frequently appear on the scene and carry off the honors.

It is to be hoped, however, that the entries to the various events will be numerous, not only in order to make them interesting to the public but also to incite keen competition in the different events. It is only through this competition that records are broken and the full capacity of a man developed.

The sprint races, the 100-yards, 220-yards and the 440-yards dashes, cannot fail to be interesting considering the men who will enter. With such sprinters as Dadmun, Allen and Mills, one cannot help seeing some rare sport. Such contestants as wish to try conclusion with these men must come in the pink of condition and be prepared to do their best.

Now that Chadwick, Jewett and Griffin have left us, there will be a chance to show off their agility in jumping to those men in the older classes who may dare to show up now that the experts have left.

We hear it whispered that Fish of '92 is prepared to show us a thing or two about jumping, but he must not be too confident, for Barnard, who is gazing after the fleeting goddess of fame, thinks he will be satisfied with one or two of the jumps and possibly a few runs besides putting the shot and throwing the hammer. In these last events Desper will in all likelihood carry off the palm,

unless some talent hitherto undiscovered is brought to light, for his old rivals, Camp, Crane and Fish are "non est" as far as school life is concerned. He will also prove a "desperate" man in the bicycle races.

If Harriman improves as much this year as he did last, he will prove quite an obstacle to the success of the other contestants, who, we are sure, will make these events interesting by giving him a good race in each of the half and the two-mile heats.

We have not as yet heard much of pole-vaulting but Marshall will not have to exert himself much to capture his badge.

In the one-mile walk the winner can be picked from Rheutan, '89; Clancy, '90; Bradford and Warren, '91, and Fish, '92. Bradford is regarded as a sure winner of this event, but both Rheutan and Clancy have demonstrated that they can push him hard for first place. Warren has loomed up lately as a dark horse and the Preps have lots of faith in Fish.

Dadmun has been gradually lengthening his distance and will undoubtedly enter the long runs, but at any rate Taylor, White and Bartlett together with an unknown from '92, will compete for honors in these, so that these will be interesting under any circumstances.

Of our present tug-of-war team, two are Seniors, and one each from '90 and '91.

Of course with Bartlett as anchor and one other team man, the Seniors can hardly be beaten, but still both '90 and '91 have some excellent material, and only time will tell what Field-day will bring forth.

Some interesting work on the cleats will be seen, no doubt.

The Winter of my life is at the bat,
And misery untold is right on deck,
The coming signs of Spring remind me that
I'm in for two years longer at the Tech.

ELEVATORS AND TAXES.

THE sensation of the month in Tech circles has been the unsuccessful attempt of the Worcester Elevator Company to get a bill through the Legislature, which was to be the entering wedge for a scheme to tax the Institute. The matter was so thoroughly written up by the local press that little remains to be added at this late date. To the Alumni, however, the following clippings may be of interest.

From the Worcester *Telegram*, March 22 :

"The order introduced in the senate by Senator Henry L. Parker, of this city, and under a suspension of the rules referred to the committee on taxation, and which provided for an inquiry as to whether any legislation was needed to enable town and city authorities to collect taxes upon the property of educational, literary and benevolent institutions which manufacture goods for sale, met its death yesterday in the house, that body refusing to suspend the rules to admit the order.

The order was intended as a direct blow at the Polytechnic Institute in this city. It was introduced by Senator Parker, at the request of one of his constituents, representing the Worcester Elevator Company. That company complained to the assessors sometime ago of what it called the unfair rivalry of the Polytechnic Institute. The Worcester Elevator Company claims that the Polytechnic Institute makes elevators very much like its own, and the students do the work upon them without pay and that the Institute is also exempt from taxation. The Institute advertises its products and is an active competitor in the market of the elevator company. The assessors have not considered the matter of taxing the Institute property as yet, and probably will not unless further legislation is had upon the subject.

* * * * *

Dwight P. Allen, superintendent of the Worcester Elevator Company, was seen at his residence, No. 8 Lancaster street, last evening by a *Telegram* reporter, to whom he talked freely on the subject. He said the trouble was all on account of the busi-

ness methods pursued by Superintendent Higgins of the Polytechnic Institute, who persists in cutting down prices so that the Worcester company is practically driven from the local field and in fact, from any other field if the Institute agents can find out where they are at work. He claims that the Institute managers have cut their rates fully one-half during the past six years. For instance, they will sell an elevator for which six years ago they received \$1200, for \$600. They undersell us at every point. Two years ago I worked up a trade with the Washington Market Company in Washington for five elevators, for which the Worcester Elevator Company was to receive \$6300. I was competing with rope companies, and beat them. The order was finally changed to four elevators for \$5450. Mr. Higgins heard of it two weeks later and telegraphed to Washington requesting the parties to await his arrival before closing the contract with me. They waited, and Mr. Higgins dropped the price down to \$3840. His work was defective and he was obliged to make a discount of \$650 from the \$3840 before he settled. The elevator in Bemis's block at the corner of Front and Warren streets in this city is another instance of their underselling us. We put in a bid of \$900, and Mr. Higgins dropped down to \$705, just to drive us out. I understand that, on account of some defect of the elevator, it has not been paid for. The Lamb block on Pleasant street is another case. Our bid was \$1140. The Polytechnic was \$925. Of course the Techs got it.

The Techs give as a reason for their ability to undersell us that the students of the Institute do a great deal of the work, and the cost of manufacture is thereby greatly reduced. But as a matter of fact, the boys don't do 1-10th part of the work on the elevators. The work is done by skilled mechanics, who are paid large wages. They are supposed to be instructors for the students, but they are not. They are away from home too much. Mr. M. B. Walls, the foreman of the Washburn shop, is paid \$100 per month. Ezra Walls, his brother, receives not less than \$3 per day, and with Thomas McCann is engaged especially to set up elevators. Now these men have been down to Coney Island five

weeks setting up two elevators for the rolling toboggan slide. George W. Jourdan, Joseph C. Bennett and J. E. Beane, all work on the elevators a good deal and don't instruct the boys at all.

Furthermore we believe that the time of Superintendent Higgins, who is paid a salary of \$3000, and also that of other employes in the Washburn shop, is not charged to the expense account of building elevators. The cars and platforms, the straightening, turning and polishing is all done by journeymen. Parts of the valves, stuffing boxes, cones and guide shoes, which are very small parts of the machine, are made by the boys. Thus it is easy to see that we are compelled to meet unfair competition. The cost of the Polytechnic elevators is not charged to where it belongs. The school covers up lots of time and expenses which we are obliged to put into the cost of our elevators. We are willing to meet legitimate competition, but it is wrong for the Institute to take advantage of their exemption from taxes and the other things to which I have alluded and undersell us. In the case of the elevator in the Bemis block on Front street, the contract requires the Institute to be responsible for all damage to the walls and foundation by reason of washing from the elevator water. Are the trustees of the Institute aware that they are responsible for such damages? I think not. If the expenses of constructing and setting up the Polytechnic elevators were equitably adjusted, Superintendent Higgins could not undersell us. All we ask for is fair play, and that is what the taxation scheme is for."

From the Worcester *Gazette*, March 22:

"In an interview with Mr. G. Henry Whitcomb of the Board of Trustees of the Institute this afternoon, he said that the complaint was of long standing and was originally made to the Board of Trustees by George T. Dewey, Esq., Treasurer of the Worcester Elevator Co. 'The complaint,' continued Mr. Whitcomb, 'was referred to the Shop Committee, consisting of Mr. C. H. Morgan and myself. We investigated the matter and reported to the Trustees, who after the fullest consideration, dismissed the complaint as groundless.

On several occasions Mr. Dewey has referred to the great injustice done his company in that it is taxed while the Institute escapes taxation. I fail to find in the published list, however, any record to the effect that the Worcester Elevator Company pays a tax of \$100. If the list is correct it would appear that the taxation which they are enduring is not sufficiently weighty to seriously embarrass their business.

The Institute of Technology makes, in my opinion, the best elevator in the market, and I believe this to be the true cause of the dissatisfaction of the complaining company. I recently took out of one of my buildings an elevator of their make, substituting for it one of the Institute elevators.

One reason that Mr. Dewey is so exercised in my opinion is that sometime ago we refused to enter into a combination with him to raise the price of elevators to their former rate. The Worcester Elevator Company furthermore has given up making the Thayer elevator and has adopted one similar to the school or Higgins elevator, without some of its improvements which are controlled by the Institute. It seems to me that the complaints are made in the hope of directing public opinion so that the Institute may be forced from fair competition and the profits of the Worcester Elevator Company may be swelled. Mr. Allen, the manager of that company, formerly held a similar position under Mr. Higgins at the school, and he was employed by them with the evident intention it seems to me of drawing our trade to them. Failing to scoop the market they became aggrieved. It is significant that neither the Whittier nor the Graves elevator companies, both of which are here in Worcester, have ever found cause for complaint of any unfairness in the Institute's policy.

In the shop nothing but the best machinery is constructed, for we believe that the boys should be taught the most approved methods and that their interest will be stimulated more by making implements for actual use than by making playthings. Every cent received from sales goes into the school, and no one, individually, is benefited by them. The revenue from the work of the shop is indispensable in helping out the school income, for the Institute is now educating in its mechanical department about

four times the number contemplated by Mr. Washburn in making his original gift. If any of the present sources of revenue are to be cut off, either the number of students must be largely curtailed or else tuition must be charged.

As a member of the Shop Committee I invite fullest inspection either on the part of the State or of the local Board of Assessors."

From the Worcester *Spy*, March 22 :

"The Polytechnic Institute built elevators ten years before the Worcester Elevator Company was formed."

A NEW CONSTITUTION.

ON Feb. 7, 1889, the Athletic Association met and, among other things, voted to have the constitution thoroughly revised, in order to meet the demands of the New England Association and to prevent, if possible, the misunderstandings which have arisen with great frequency in recent meetings.

In accordance with the vote then passed, President Kimball appointed a committee of two from each class to perform the needed revision. This committee consisted of A. P. Allen and E. G. Penniman, from '89 ; L. N. Farnum and E. C. Rice, from '90 ; S. A. Kinsley and H. P. Eddy, from '91 ; and F. M. Savage and C. A. Tucker, from '92. President Kimball was chairman, and E. C. Rice was chosen as secretary.

This committee held two meetings and manfully wrestled with the fine legal and grammatical points that have been such pitfalls for the unwary in past meetings of the association. On March 28, the committee presented the following constitution, which was accepted, strange to relate, without one single dissenting murmur.

CONSTITUTION OF THE W. P. I. A. A.

ARTICLE I.

NAME AND OBJECT.

Section 1. The name of this Association shall be THE WORCESTER POLYTECHNIC INSTITUTE ATHLETIC ASSOCIATION.

Section 2. Its object shall be the encouragement of athletics among the members of the Institute.

ARTICLE II.

MEMBERSHIP.

Section 1. Any member of the Institute may become a member of this Association upon payment of the required dues.

Section 2. Membership in the Association shall be forfeited upon failure to pay all dues as provided for in this Constitution.

ARTICLE III.

OFFICERS.

Section 1. The officers of the Association shall consist of President, Vice-President, Secretary, Treasurer, Keeper and Board of Directors.

Section 2. The President must be chosen from the Senior class and the Vice-President and Keeper from the Middle class.

Section 3. A member of the Association is ineligible for any of its offices unless he has been a member of the Institute at least one-half year. Exception is made, however, in the case of the Directors from the Apprentice class.

ARTICLE IV.

DUTIES OF OFFICERS.

Section 1. It shall be the duty of the President to preside at all meetings of the Association, and he shall call meetings at the written request of fifteen members who shall represent three classes.

Section 2. It shall be the duty of the Vice-President to preside in the absence of the President, or at his request.

Section 3. It shall be the duty of the Secretary to keep, in a book kept for that purpose, an accurate record of the proceedings of every meeting of the Association. This record of each meeting must be read and acted upon by the Association at its next meeting. He shall keep in another book, kept for this purpose, a true account of all sports contested in by members of the Association, and the results of all foot-ball and base-ball games played under the auspices of the Association. These records shall be read and voted upon at the semi-annual meetings of the Association.

Section 4. It shall be the duty of the Treasurer to take charge of all funds of the Association. He shall keep, in a book

kept for that purpose, an itemized account of all moneys received and paid out by him, and his accounts shall at all times be open to the inspection of any officer of the Association. He shall keep a list of the members of the Association, in a book kept for that purpose. He shall pay out money belonging to the Association only on the written order of the chairman of the Board of Directors. He shall submit at each semi-annual meeting a statement of the financial condition of the Association, and this statement shall include, also, the reports of the foot-ball and base-ball managers.

Section 5. It shall be the duty of the Keeper to take charge of all the property of the Association, for which he shall be responsible, and of which he shall keep an itemized account, in a book kept for the purpose.

Section 6. The Directors shall constitute an executive committee for the Association, and shall arrange all Field-days, and shall appoint such officers for the same as they shall deem necessary. They shall collect from their respective classes all assessments due the Association.

ARTICLE V.

ELECTION OF OFFICERS.

Section 1. Meetings for the election of officers shall be held semi-annually: on the second Friday of the school year and on the second Friday of March.

Section 2. At the fall meeting the following officers shall be elected: A President from the Senior class, a Vice-President and a Keeper from the Middle class, a Secretary and a Treasurer.

Section 3. At the spring meeting the following officers shall be elected: A President from the Senior class, and a Vice-President from the Middle class.

Section 4. Clause 1. The Board of Directors shall be composed of two members from each class.

Clause 2. The Directors from the several classes shall be elected by ballot by the respective classes. One shall be elected in September and one in February. The Apprentice class shall elect two Directors, one to serve for six months and the other for one year.

Clause 3. The names of the Directors elected by each class shall be presented to

the Association at the regular semi-annual meetings and they shall then be declared elected.

Section 5. All officers shall serve until their successors are chosen. Vacancies which occur at any time may be filled at any meeting of the Association.

ARTICLE VI.

FOOT-BALL AND BASE-BALL.

Section 1. The foot-ball and base-ball interests of the Institute shall, each in its respective season, be under the control of a manager to be elected by the Association. He shall have complete control of the business management of the team.

Section 2. The base-ball manager shall be elected at the regular fall meeting of the Association. The foot-ball manager shall be elected at the regular March meeting.

Section 3. The Association shall also elect, at the fall meeting, a manager for the team which is to contest in the annual games of the N. E. I. A. A. He shall have charge of the training of the team and its general management.

ARTICLE VII.

ASSESSMENTS.

Section 1. There shall be a semi-annual assessment of one dollar on each member of the Association.

Section 2. Assessments shall be due at the beginning of each half-year. They shall be collected by the Directors of the respective classes and by them paid to the Treasurer of the Association before October first and April first of each year.

ARTICLE VIII.

MISCELLANEOUS.

Section 1. The Association shall hold semi-annual field meetings in May and October of each year, on such dates as the Directors may select.

Section 2. Any action of the Board of Directors may be rescinded by a two-thirds vote of the Association.

Section 3. This CONSTITUTION shall go into effect immediately after it shall have been adopted by a majority of the Association.

Section 4. Cushing's Manual shall govern the proceedings of all meetings of the Association.

Section 5. The vote of the majority of

the Directors shall be necessary to carry a measure. The chairman shall retain his right to vote.

Section 6. The New England Intercollegiate Athletic Association rules shall govern all field-meetings of the Association.

Section 7. Only those who are members of the Association shall have the right of voting in its meetings or of competing in its semi-annual contests.

Section 8. Thirty members shall constitute a quorum.

Section 9. Notice of each meeting of the Association shall be posted by the Secretary at least two days in advance of the proposed meeting.

ARTICLE IX.

AMENDMENTS.

This CONSTITUTION may be amended by a two-thirds vote of the members present at any meeting of the Association, provided that the proposed amendment shall have been submitted to the Association in writing at least one week previous.

A COMEDIAN'S TROUBLES.

MILTON Aborn, the bright particular star and lord high executioner of the Front Street Musee, the same Aborn who recently had a touching adventure with a party of fifty-two Tech students, has got into trouble again and this time, as before, it is all due to his wild, haughty, untamed recklessness and a desire to give his show as much free advertising as possible.

In his constellation of opera manglers there is a pretty girl known on and off the stage as Lillian Harvey. She is a petite miss of about nineteen summers and she plays on the right end of the rush-line. In the opera of Erminie she wore pants and took the part of the captain of the guard, which role, *en passant*, she filled very sweetly and piquantly.

On the afternoon of March 20, after the usual performance of "Fatinitza," she left the Musee in company with Miss Carter, Miss Narbis and two or three of the other girls for a short constitutional up the street.

Before they had gone very far Lillie happened to remember that her dark tresses were a little out of gear, and as she had a quarter in her pocket at the time, she left her companions with the remark, "I'll see you later," and hied herself to a neighboring barber shop.

Miss Harvey has beautiful hair and is naturally quite proud of it. It is the kind that doesn't have to be laid over the back of a chair at night, and it frizzes beautifully. She isn't satisfied with having her locks arranged by feminine hands, but must needs call on the expert French artists employed in the tonsorial parlors of Mr. George E. Miller.

So she skipped gaily up the marble-plated stairs, waited till Mr. Miller called "Next!" and then composed herself in the large, plush, velvet-trimmed arm-chair.

"Shave?" said Mr. Miller.

"No," replied Lillie, "hair-cut."

Thereupon Mr. Miller got out his horse-clipper and his frizzing irons and gave the beautiful Lillian one of his most Frenchy clips. When it was all over, Lillian arose, smiled sweetly, paid her quarter, said "Ta-ta," and departed, leaving behind her many aching hearts and about a pint of her curly locks, which the young assistants employed by Mr. Miller immediately appropriated and put in their inside coat pockets next their hearts.

When Miss Harvey reached her hotel she met Milton Aborn and blithely related how kindly Mr. Miller's young men had treated her and what a pleasant time she had had all around.

When Milt. heard her story he fancied that somebody had been too fresh with members of his company, and his hot blood surged around his temples and down into his number nine shoes. With a mighty oath he stalked tragically out of the hotel, and with vengeance in his eye and a bottle of Dutch courage in his pocket, he flew up the street after Mr. Miller's gore.

Stopping at one of the hardware stores he procured a Gatling gun, a double-barrelled shot-gun and a beautiful silver-mounted dog-whip with which to annihilate the unfortunate Mr. Miller, who was calmly shaving a customer at the time, little dreaming of his impending fate.

Milt. left his Gatling gun and the shot-gun at the outer portal, and, taking a big drink of bug-juice, sought out the proprietor.

"Is your name Miller?"

"Ja."

"Well, come out in the corridor a minute and help me find my wallet."

When Milt. got his victim well surrounded in the corridor he pulled out his dog-whip and began proceedings by charging Mr. Miller with attempting to kiss a female member of his company.

Mr. Miller is a little man but he is dangerous when his blood is up and he promptly resented the imputation.

Thereupon Mr. Aborn foamed at the mouth, talked thirty laps to the minute and flourished the dog-whip.

The bystanders threatened to lay violent hands upon him. Then Milt. said, "Not so loud, Robbie, not so loud," and attempted to sneak out.

His courage had oozed out with the bug-juice.

The crowd gave various suggestions to the eminent comedian.

Finally he apologized all around and went away without having accomplished his vindictive purpose.

Mr. Aborn seems to be laboring under the impression that little provincial Worcester is all his own and subject to any fancy his imagination may suggest.

Some day when he is out on one of his revenge expeditions he will run up against a bold, bad man with a hard, horny fist and there will be a mourning in the ranks of the Gaiety Opera Company for one who meant well but was oh! so hot-headed and reckless.

ALUMNI NEWS.

THROUGH the courtesy of Dr. Fuller, who has kindly allowed us access to his very complete data on the subject, we are enabled to present, a month in advance of the 1889 catalogue, the following list of changes in the occupations of the Alumni that have taken place within the past year.

'71.

William R. Billings, treasurer, Taunton Locomotive Co., Taunton.

Samuel S. Jennison, master mechanic, Tamarack-Osceola Mfg. Co., Dollar Bay, Mich.

George H. Nichols, day assistant of pastor, First Unitarian Church, Worcester.

'72.

Herbert S. Rice, Ontario Paper Co., Watertown, N. Y.

'73.

Arthur C. Aldrich, architect and surveyor, Orlando, Fla.

Fred. H. Daniels, assistant Supt., Washburn & Moen Mfg. Co., Worcester.

Willard T. Hatch, partner, Morton & Hatch, textile machinery, Providence, R. I.

James H. Patton, signal engineer, Fitchburg R. R. Co., Fitchburg, Mass.

Walter M. Wheelock, partner, Boggs & Wheelock, hardware, Boone, Iowa.

'74.

Samuel H. Leonard, chief engineer, U. S. S. "*Bache*," U. S. Coast Survey, Key West, Fla.

'75.

Charles C. Chandler, chief engineer, O. & M. R. R., Cincinnati, O.

Charles G. Washburn, assistant secretary and counsel, Washburn & Moen Mfg. Co., Worcester.

Charles F. White, partner, Dunkirk Engineering Co., Dunkirk, N. Y.

'76.

Edward P. Adams, landscape architect and sanitary engineer, Boston.

Charles L. Annan, office engineer, U. P. R'y, Omaha, Neb.

Benjamin S. Crocker, civil engineer, Chicago, Ill.

Emil Gerber, resident engineer, Jacksonville Bridge Co., Jacksonville, Fla.

Herbert M. C. Skinner, Supt., N. Y. Locomotive works, Rome, N. Y.

Clarence E. Sprague, assistant engineer, Bridge & Building Dep't, C. M. & St. P. R. R., Minneapolis.

Mark Wilmarth, Pres. Metropolitan Cons. Co., Boston.

'77.

Norman C. Bassett, mechanical engineer, Hale Elevator Co., Chicago.

Bernard F. Booker, assistant in charge of Way, Building and Water Service, G. C. & St. Fé R. R., Galveston, Texas.

Henry H. Browning, with A. A. Ordway, shoe Mfr., Haverhill.

Addison B. Clemence, chemist, Worcester.

Calvin H. Hill, partner, Heywood Bros. & Co., Gardner.

Daniel W. Pratt, civil engineer, with E. Bowditch, Boston.

Richard Radley, Supt., Geo. W. Tift Sons & Co., Iron Works, Buffalo, N. Y.

Howard C. Todd, assistant engineer, Mo. Pac. R'y, Pueblo, Col.

William M. Towle, draughtsman, Buckeye Engine Co., Salem, O.

Charles R. Whittier, Pres., Whittier Elevator Co., New York City.

'78.

F. Seymour Clark, purchasing agent, Lafayette Car Works, Lafayette, Ind.

Winthrop W. Fisk, chemist, Juneau, Alaska.

Chris. H. French, head draughtsman, Dutcher Temple Co., Hopedale.

Artemus B. Upham, Premium Dept., *Youth's Companion*, Boston.

'79.

Charles L. Allen, Supt., Holyoke Hydrant & Iron Works, Holyoke.

Wilton H. Desper, sub-master, high school, Brookline.

Fred. L. Dudley, draughtsman, Edgemoor Bridge Co., Wilmington, Del.

William F. Howe, Supt., Architectural Iron Dept., Russell & Roberts, Chicago.

T. Spencer Miller, engineer-salesman, Lidgerwood Mfg. Co., N. Y. City.

Frank H. Works, contracting engineer, Wrought Iron Bridge Co., Canton, Ohio.

Charles H. Wright, engineer-in-charge, details and draughting, Edgemoor Bridge Co., Wilmington, Del.

'80.

George T. Briggs, director and electrician, Eddy Elec. Mfg. Co., Windsor, Conn.

Ezra E. Clark, erecting engineer, Deane Steam Pump Works, Holyoke.

Thomas H. Clark, instructor in chemistry, Wesleyan University, Middletown, Conn.

William O. Green, Supt., Cutter Silk Works, Bethlehem, Pa.

Willis C. Harris, engineer, U. P. R'y, Harrisburg, Col.

Walter Hill, with Sumner & Goodwin, mfrs. plumbers' supplies, Boston.

Ernest P. Sparrow, with Thomson-Houston Elec. Co., Boston.

'81.

Nathan A. Cobb, Ph. D., student, Zoölogical Museum, Naples, Italy.

Elijah J. Dallett, partner, Baker & Dallett, architects, Philadelphia, Pa.

William P. Dallett, with Wm. Sellers & Co., Phila., Pa.

Dwight Goddard, assistant master-mechanic, Washburn & Moen Mfg. Co., Worcester.

William V. Lowe, with C. H. Brown & Co., manufacturers of steam engines, Fitchburg.

G. McL. Robbins, attorney and real estate agent, Titusville, Fla.

Stephen F. Roberts, with Boston Rubber Shoe Co., Malden.

Harry R. Underwood, civil engineer, Mo. Pac. R'y, Sedalia, Mo.

Seth B. Weaver, head draughtsman, Crane Elevator Co., Chicago.

Patrick J. Donahue, partner, Donahue & Brown, real estate and loan agents, Tribune, Kan.

'82.

John Q. Barlow, division engineer, U. P. R'y, Omaha, Neb.

Herbert W. Cowan, assistant engineer, U. P. R'y, Denver, Col.

John J. Donovan, chief engineer, F. & S. R. R., and Skagit Coal & Trans. Co., Bellingham, W. T.

Henry S. Downe, sec., Nat. Hot Water Heater Co., Boston.

Charles C. Hall, supt. and chemist, Bessemer Steel Works, Middleport, O.

Charles A. Earle, with Norcross Bros., Kansas City, Mo.

Louis E. Hawes, water-works and sewage engineer, with P. M. Blake, C. E., Hyde Park.

Clarence H. Hubbard, station agent, No. Adams.

Fred. W. Moore, assistant engineer and contracting agent, Milwaukee Bridge & Iron Works, Milwaukee, Wis.

Charles L. Prince, assistant Supt., Camden Iron Works, Camden, N. J.

William D. Sewall, partner, Arthur Sewall & Co., ship builders, Bath, Me.

Albert L. Tucker, assistant Supt., Western Elec. Co., Chicago.

R. C. von Biberstein, draughtsman, Mechlenburg Iron Works, Charlotte, N. C.

Arthur H. Washburn, with Golden Gate Fruit Packing Co., San José, Cal.

'83.

Victor E. Edwards, mechanical engineer, with Edward Sawyer, Boston.

George M. Hawley, partner, M. B. Hawley & Co., San Francisco.

Will H. Hobbs, Ph. D., student, University, Heidelberg, Germany.

Fred. M. Parker, designer, Worcester Carpet Co., Worcester.

'84.

Willard Fuller, Union Rolling Mill, Cleveland, Ohio.

Bernard E. McDonald, assistant Supt. and chemist, Washburn Steel Car Wheel Co., So. Boston.

Arthur L. Stone, analytical and assaying chemist, Denver, Col.

'85.

Charles A. Bartlett, assistant engineer, W. & S. W. R'y, Winona, Minn.

Joseph Beals, teacher manual training, high school, Fall River.

Everett W. Ela, electrician, American Watch Co., Waltham.

Samuel M. Green, master mechanic, Merrick Thread Co., Holyoke.

James H. Griffin, chemist, Worcester Steel Works, Worcester.

William S. Humphrey, Bridge & Building Dep't, M. K. & T. R'y, Parsons, Kan.

Moses B. Kaven, works manager, Simonds Forging Co., London, Eng.

Marcus J. Patterson, draughtsman, Edgemoor Iron Works, Edgemoor, Del.

Frank B. Rice, Supt. of construction of Clapp's Ammonia Concentrators, New York City.

Harry B. Prindle, in charge of advertising and printing dep't, Thomson-Houston Elec. Co., Boston.

Allan D. Risteen, assistant editor *Locomotive*, Hartford, Conn.

Frank K. Rogers, teacher, Manual Training School, St. Paul, Minn.

Geo. P. Smith, assistant engineer, B. & M. R. R., McCook, Neb.

'86.

Charles A. Bennett, principal, Manual Training School, St. Paul, Minn.

Walter F. Brooks, assistant engineer, St. P., M. & M. R. R., Mapleton, Minn.

Henry W. Carter, draughtsman, Holyoke Mch. Co., Worcester.

Hamilton J. Chapman, draughtsman with Norcross Bros., Syracuse, N. Y.

William E. Drake, in charge of wood-working dep't, Pratt Institute, Brooklyn, N. Y.

Arthur B. Fairbanks, teacher, manual training, public schools, Washington, D. C.

Frank Fay, manager Fay Mfg. Co., Chester.

Frank A. Higgins, student, Harvard Medical School, Boston.

Charles F. Hunt, civil engineer, Lacrosse, Mo.

Norman Marshall, with F. S. Marr Cons. Co., Boston.

John C. Miller, supervisor of drawing, public schools, Harrisburg, Pa.

Thomas F. Mitchell, chemist, Henderson Steel Co., Birmingham, Ala.

Wm. S. Morehouse, draughtsman, Norwalk Iron Works Co., So. Norwalk, Conn.

Harry B. Sawyer, teacher, Manual Training School, St. Paul, Minn.

N. Austin Smithwick, draughtsman, with E. Woodward, Boston.

Arthur F. Walker, draughtsman, Central R. R., Deadwood, Dak.

Walter G. Wesson, teacher, Forsyth School, Phila., Pa.

Leon A. Whitney, draughtsman, Fitchburg Mch. Co., Fitchburg.

'87.

Harry H. Allen, principal, Union Grammar School, Millbury.

George W. Burr, with Robinson Foster Elec. Motor Co., Boston.

Ernest H. Fairbanks, draughtsman, Deane Steam Pump Co., Holyoke.

Ira L. Fish, teacher manual training, Washington, D. C.

Roland P. Gleason, teacher manual training, Washington, D. C.

Frank Harvey, student, N. Y. Hom. Med. College, N. Y. City.

William H. Kirchner, instructor of mathematics and drawing, Rose Polytechnic Inst., Terre Haute, Ind.

William A. McClurg, Jr., Supt., Elec. Light Co., Plainfield, N. J.

Fred. W. Morse, chief chemist, N. H. Agric. Experiment Station, Hanover, N. H.

James P. Pierpont, student, University, Berlin, Germany.

Henry S. Streeter, teacher, Field High School, Leominster.

Geo. P. Tucker, assistant chemist, U. P. R'y, Omaha, Neb.

'88.

Charles F. Bailey, draughtsman, Tac. Mach. & Foundry Co., Tacoma, Wash. T.

George E. Camp, with Washburn & Moen, Worcester.

Clarence W. Chadwick, State Bank, St. John, Kan.

J. Brace Chittenden, student, Harvard University.

Allerton S. Cushman, student School of Mines, Freiburg, Germany.

Fred. J. Doon, electrician, Edison Elec. Ill. Co., Boston.

W. J. Duncan, draughtsman, Hilton Bridge Cons. Co., Albany, N. Y.

R. E. Eldridge, with Deane Steam Pump Co., Holyoke.

Charles Ferry, assistant in analytical chemistry, M. I. T., Boston.

Geo. H. Frary, manufacturer wood-turned goods, Waterbury, Vt.

Ernest W. Gilman, with C., B. & Q. R. R., Chicago.

John M. Goodell, student, Polytechnic Institute, Zurich, Switz.

Charles L. Griffin, draughtsman, Brown & Sharpe, Providence, R. I.

Fred. D. Holdsworth, draughtsman, R. I. Locomotive Works, Providence, R. I.

Fred. S. Hunting, draughtsman, Jenney Elec. Light Co., Fort Wayne, Ind.

James H. Jenkins, draughtsman, Thomson-Houston Elec. Co., Lynn.

R. L. Lovell, draughtsman, Thomson-Houston Elec. Co., Lynn.

W. R. Marden, draughtsman, N. Y. office Riverside Bridge & Iron Works, N. Y. City.

P. J. McFadden, student, Polytechnic Institute, Hanover, Germany.

Harry S. Mulliken, assistant to State Board of Health, M. I. T., Boston.

Geo. F. Myers, assistant Supt., Va. Elec. Light and Power Co., Richmond, Va.

Theo. D. Paul, draughtsman, F. E. Reed & Co., Worcester.

Harry E. Rice, with Washburn & Moen, Worcester.

Geo. I. Rockwood, draughtsman, Wheelock Engine Co., Worcester.

J. M. Schofield, with Whitin. Mach. Co., Whitinsville.

K. M. Shimomura, student, Johns Hopkins Univ., Baltimore, Md.

C. B. Smith, draughtsman, R. I. Locomotive Works, Providence, R. I.

Fred. W. Spiers, student, Johns Hopkins Univ., Baltimore, Md.

William S. Sweetzer, assistant chemist, experiment station, State College, Center Co., Pa.

Geo. M. Warren, assistant civil engineer, with T. F. Chappel, Pawtucket, R. I.

IN MEMORIAM.

THE sad news of the death of Frederick William Fiske, which so grieved the whole school in the middle of the vacation just passed, came so unexpectedly to the minds of us all that it could hardly be believed. When we think of him, so full of life, actively engaged in his work, with plans carefully made for the full enjoyment of the vacation so near at hand, we can hardly realize that in so short a time he has been taken from us and will never be with us again on earth. Ever since his connection with the school he has always been a leader in everything he has undertaken. At the head of his class during the apprentice year, he had, since then, been steadily placing himself further in advance, until, at the time of his death, he was recognized by all of his classmates as their undisputed leader in scholarship. In the apprentice year he was also very prominent in the athletic work of the school and from then till now the same enthusiasm and aptness which served to place him at the head of his class, also made him a leader in base-ball, foot-ball and lawn tennis, and his earnest desire for success in the hare-and-hound run undoubtedly caused the over exertion which finally resulted in taking him from our midst. It was this same determination in all things that made him so popular with the whole school, teachers and students, in recitation and at work, and his genial ways and pleasant smile soon made him a firm friend and agreeable companion of all who met him. Always cheerful and full of mirth he soon won for himself the respect of all with whom he was acquainted

and placed himself foremost in all his school associations. His activity and ability made him a member of the school foot-ball eleven during the past fall and the respect held for him by the Athletic Association made him its secretary.

As a student he was always faithful, doing carefully and thoroughly the work before him, and although his position as leader of his class was never in danger he worked with as much enthusiasm and zeal as if he were trying to reach the place already granted him by teachers and classmates. With his thoughts first and continually for success in his school-work he lived with that purpose in view and let nothing in any way interfere with his study, but when he did find time to engage in the sports so characteristic of school life, he entered into them all with that same eagerness for success that was so noticeable in all that he did. So sincere was he in his devotion to study, that during the fourteen months of his connection with the Institute he lost scarcely an hour until the few days of his last illness.

Beloved by his classmates he was made their first vice-president and immediately afterward was their secretary. In the field of sport he was their foot-ball captain and a member of their baseball team. Generous in nature and with a character as clear and pure as the rain that falls his future was most promising, and had he lived to finish the life work so well begun the light of his great ability would not have failed to illumine the reputation of the Institute. An instance of his love of principle is shown in his answer to a friend just before starting on the hare and hound chase which proved so fatal to him and so sorrowful to his friends. On the Saturday afternoon of the run he complained to a friend before starting of a severe headache and on being advised not to go answered: "I promised the boys that I would go, so I can't back out now." Such were his ideas of duty,

and rather than disappoint his friends who were going he started, a sick boy, on a run to which he was unused, and which a trained athlete would hesitate to undertake.

With such thoughts in mind it was a sad gathering of his classmates which met at Boynton Hall on the Monday morning after his death. The sorrowful occurrence, happening in vacation, was known only to a portion of the class, but the funeral was to occur so soon that immediate action of the class was necessary. A large pillow of flowers with the inscription "Classmates W. P. I. '91" had been ordered and the class after careful consideration decided to send a representative to Washington to attend the funeral. This representative was instructed by vote to express the sympathy of the whole class to the widowed mother and relatives of him whom we loved and respected so much, in such manner as he thought best. In the absence of Mr. Walter Hastings, the president of the class, Mr. Sumner A. Kinsley was selected and left Worcester Monday noon, reaching Washington Tuesday morning. In New York City he was joined by Mr. Fred A. Bigelow, the vice-president of the class, who was away for his vacation, and in this manner two representative members of the class and school were present in person to express the sympathy of many Worcester friends. Circumstances, however, prevented their attending the funeral as it was necessary to hold the services Monday afternoon and thus none of the class were permitted to see his face again.

He was indeed the first in his class,— first in scholarship, first in the field of sport, and by the will of the Creator the first to die. While we mourn at his death we must all bow down to the will of the Almighty.

Beloved by his classmates all,
He heard the Almighty call
And left us in mourning.

He has our leader been,
None knew the place but him.
Naught but to do and win.
None could outshine him.

Now sleeps he in slumber dear,
Naught else has he to fear,
His crisis is over.
Upright and pure of heart,
Zealous to do his part
In life's work from the start,
We grieve at His judgment.

Now earth shall ne'er see him more,
But on the other shore
Again shall we greet him,
When we again can stand,
Classmates then, hand in hand
As one united band,
With him as our leader.

Born A. D. August 17, 1869.
Died A. D. April 6, 1889.

EXCHANGES.

WE take pleasure in reviewing the first number of the *Red and Blue* from the University of Pennsylvania, still we fail to see the motive which has prompted its founders to open in a field so well covered by the *Pennsylvanian*. There seems to be no call at the university for two separate papers to all intents and purposes so greatly alike, yet in spite of the priority of its contemporary the *Red and Blue* gives evidence at the outset that it will by no means take a back seat. Its original matter is hardly as voluminous as the number of its editorial staff might warrant, still the productions are well chosen and served in an agreeable style. In No. 2, "Evils of a Grading System," is very well written,—the following is a clipping.

"Can we not do the average man the justice of allowing him to 'know his business.' The man who works for a grade—who does his work not as a duty but for a reward,—is no better morally than the man who neglects it entirely. Perhaps he has a certain gain in mental training but even here he is second to the man who knew where his interest lay and entered upon no side issues."

The *Argus* from the Philadelphia Manual Training School has been added to

our exchange list during the past month. It contains a very interesting exchange column and other departments are not neglected; the typography is pleasing and gives the paper a sort of professional appearance. In striking contrast to the *Argus* in their last particular is the *High School World* from St. Paul, Minn. If its youthful editors should adopt some plainer type and leave out the extra leads, their paper would look less like an advertisement and the same matter would seem far more acceptable.

The *Illini* answered an article in our February number editorially rather than in the exchange column. In haste it would have been overlooked had not our attention been called to it by another exchange. We have no space nor disposition to prolong the discussion, though we must say that while the *Illini* has used some very convincing arguments we still find no cause for changing our mind.

At the rate the *Ariel* has been progressing recently its editors will soon rank high among the country's great newspaper men. A few months ago they sent men to canvass the evangelical ministers of Minneapolis in regard to a sectarian dispute and published the interviews in full. Not contented with this nor with censuring the city press, they straightway got themselves into a libel scrape with some of the natives. Next, with the exposure of a railroad fraud or political steal, the *Ariel* will be a candidate for the Associated Press.

Our exchange editor who was feeling rather prosy the other night picked up a copy of the *Beacon* and commenced to read the following:

"The Sanctum is reflective to-night. The work is hard to lay aside. We began with quakings, and have had reason to quake frequently all along the way, but the road was becoming familiar, and we enjoyed the travelling and the companionship.

“Our sun is setting, it has vanished forever behind the western hills, but the horizon is still streaked with the brilliant coloring of delightful reflections, and we feel that some of these rays will light us all the way along. As we gaze about, even the old Sanctum looks sympathetic. The worn cushions, the flapping curtains, the strewn table are all in harmony with our inner musings. With a sigh and a farewell we gently close the door. ‘It is finished.’”

The office cat who was turning the leaves for him looked on the next page to see if there was any more, but when he glanced up he saw that it was too late,—the Ex. man had fallen into the waste-heap a lifeless mass. The doctors are still in doubt concerning his recovery, as we go to press, but in case of his convalescence before the next issue, our readers may look for a continuation of this column.

THE “W P I.”

WITH this month's issue of the W P I, the Senior editors resign their control and the paper passes into the hands of representatives of the class of '90. This is a radical departure from long established precedent, but it is a wise provision, as will be seen on a moment's thought. The Seniors leave the paper at a time when their final work of the course demands their undivided attention and the Middlers have their own great enthusiasm and the advice of their illustrious predecessors to tide them over the most uncertain part of their term of service. Another good idea is the permanency of the editorial board. According to this plan, new editors are chosen from time to time by the board then in office and they serve until resignation. This enables men to be selected according to their special fitness, and the young members of the staff get a good training in the mysteries of the pen, paste-pot and shears, that

will stand them in good stead when they finally become editors-in-chief.

The new board has organized with Elmer C. Rice as Editor-in-Chief, and Loring N. Farnum as Business Manager. The Middle class is also to be represented by Edward H. Rockwell and Alton L. Smith. The Junior class has Harry L. Dadmun and Sumner A. Kinsley, and the Apprentice class, F. M. Savage. Mr. Farnum will continue to discharge the duties of the Exchange Editor, which he has done so acceptably for the past few months, and the other editors will contribute bright matter written in the same talented vein that has made their names household words.

“With charity to all and malice to none,” the new board starts in on a twelve-months' campaign with a determination to print all the news pertaining to the Institute without fear or favor, and a desire to push the W P I onward and upward according to the demands of the latest and most approved ideas of college journalism.

SHOP NOTES.

A VISIT to the shop during vacation found a room-full of industrious students heroically at work on “extra practice” time. Up in the wood-room a transformation scene has taken place that is enough to bewilder the most blasé Prep. The partition which has so long separated Mr. Badger's amateurs from the professional workmen in the main shop has been moved north 19 feet, leaving space for a needed enlargement of the tool-room and for the addition of new machinery and benches. It is hoped to replace with a more modern machine the old jig-saw that has banged the heads of every Prep since the year 1868.

Down in the blacksmith shop, John breathes a sigh of relief, as the cranes which have been made for Darling Bros., under the supervision of Foreman Houlihan, are at last completed.

Prof. Alden's engine, having received its finishing touches, has been moved from its accustomed place near the Pond lathe, and now stands in the new building. Mr. Walker is "on the road" in New York and Pennsylvania, pushing the sale of his drill grinder. Elevator work is dull. The castings for two new wood-turning face lathes wait expectantly for the skilled hands that will transform them into helpful adjuncts for the pattern makers in the room above.

The roller slide at Coney Island which the shop has recently been fitting up with elevators is a decidedly novel structure. The square, park-like enclosure that contains the slide was originally intended for a beer-garden. In the centre of the square is an immense wooden elephant, 150 feet high, and other dimensions accordingly. It was built some time ago by Philadelphia parties, with the expectation that people would pay a quarter to see the elephant and take a trip up to the top of the pagoda-like structure on his back, from which elevated point the beauties of the surrounding country can be pointed out with great facility. But the average habitué of Coney Island wants something more exciting than a wooden elephant, and so the descendant of the ancient mammoth gradually fell into innocuous desuetude. Some enterprising New York geniuses, too, built an observation tower 300 feet in height, which rather knocked the spots out of the Philadelphia beast. In this extremity it was decided to convert the garden into a "slide." The slide is now nearly completed. It is 3000 feet in length. The cars start from the top of the elevator shafts and encircle the garden three times, the track being laid in easy grades and curves. There are two elevators working alternately, and their office is to raise the cars from the foot of the slide to the starting point. It is a 60-ft. run and the trip is made in eight seconds. This is at the rate of 450 ft. a minute, a speed decidedly unusual for

an hydraulic elevator. By an ingenious system of automatic stops, invented by Mr. Walls and Mr. Cole, the ascent of the elevator is checked by a motion as easy and gradual as when a pretty girl jumps into a hay-mow, only, we imagine, the sensation isn't half so delightful.

Tom McCann was one of the workmen employed on the job, and the elephant just filled his soul with glee. From his description of the mammoth pachyderm it is worth going miles to see. Tom says that it is 300 feet high; that if it stood in Worcester it would reach from the Salisbury laboratories to Lincoln Square; that its tail is 51 feet long; that one of its toe-nails would just about fill the blacksmith shop. Furthermore, every time this beast blows his nose he cracks large panes of glass in Jersey City. It can be seen for miles around. Tom saw it as soon as the train left South Worcester. Even now, on clear days, he goes up on Newton hill and takes long, lingering looks at his old friend.

COLLEGE NEWS.

The Seniors at Tufts have decided to omit the usual class-day.

Psotta, who was expected to stroke Cornell, sails for England in May to take part in the Henley Regatta.

Fencing and boxing are rapidly coming into favor among the larger American colleges.

The Summer School at Northfield, under the direction of Mr. Moody, will be held from June 29 to July 12 next summer.

The trainer of Cornell's crew says that if his men do not outrow Yale he shall charge nothing for his services.

The Yale *News* denies the report, circulated by the New Haven papers, that the university is to have a chair of protection.

A feature of the gymnasium exhibition at Bates College will be a fencing

match between a gentleman and young lady of '91.

The Harvard foot-ball men have commenced out-door practice.

The *Nineteenth Century* will shortly publish articles by the presidents of Harvard, Yale, Princeton, Swarthmore, Cornell, and Bryn Mawr upon educational questions.—*Crimson*.

St. Paul's School cricket eleven has arranged to play twelve games in Canadian cities during the coming season.

The Harvard *Crimson* in a well written article on the Amherst nine says: "The prospects of success are, perhaps, as bright as any Amherst has had for the past few years."

The following from the Wesleyan *Argus* shows a possibility of the college waking up, in time at least to see the other go by:

"Coincident with the base-ball boom this spring, there will be a strenuous effort made to bring up the stand of the college in general athletics. For the past few years our position has been a poor one in this department, and if we remain in league with other colleges, we must take a most decided brace."

Almost every day we are informed by some exchange that a certain college (never the same twice) is the largest in the world; here is a new one from the authority of the *Pennsylvanian*:

"The largest college in the world is that at Cairo, Egypt, with 300 professors and 10,000 Mahometan students."

The students of Adrian College, Mich., have inaugurated the most original scheme in the shape of a so-called "best girl trust," the object of which is the monopoly, by its members, of the entire female population in the neighborhood.

The Williams *Weekly* not only shuts its eyes to the juggling executed by the committee of the N. E. I. A. A. but in an editorial commends their action of setting aside the constitution and fixing matters to suit themselves. Following

is a clipping from the article referred to:

"The result of the meeting of the executive committee of the N. E. I. A. A. is just what was expected and what it should have been. The exclusion, for no apparent reason, of two events which are acknowledged as belonging in the programme of every meeting, was most short sighted policy upon the part of the convention, and it is to the credit of the committee that they replaced them."

LETTER FROM PROF. KIMBALL.

ON Prof. Kimball's return from Europe the good-will existing between teacher and school found expression in the presentation of an arm-chair by a committee appointed from the several classes. In connection with this the following letter is self-explanatory.

WORCESTER, MASS., MARCH 13, 1889.

To the Students of the Polytechnic Institute.

GENTLEMEN: Please accept my thanks for the *remarkably comfortable* chair left for me yesterday.

Be assured that I fully appreciate the skill of the builder, the good taste of those who made the choice, and above all the thoughtfulness of the donors. I shall highly prize the chair for itself, but far more highly do I value the good will and kind feelings which prompted the gift.

With my sincere wishes for your success in life I am,

Cordially Yours,
A. S. KIMBALL.

TECHNICALITIES.

M. J. Bigelow, '89, will be clerk of the course on Intercollegiate day.

The grand lodge of Q. T. V. fraternity will meet in this city May 24 and 25.

Meeting of the Board of Trustees, Saturday, April 20. Important developments expected.

The Tennis Association has elected officers and is thinking of holding a Spring tournament.

The Middlers have taken the usual examination in differential calculus and the Juniors one in trigonometry.

School organizations are now not permitted to make out of town engagements without consent of the faculty.

There is something inspiring about climbing up to chapel to the tune of Solomon Levi, with full organ accompaniment.

A reading-room with all the current scientific periodicals on file is one of the probabilities of the Salisbury Laboratories.

Time hangs heavy on the hands of the Seniors. Three of them were observed, not long ago, playing marbles in the street.

"In this coaled, coaled place," quoted a Junior in the boiler-room, as he sadly went out for another barrowful of screenings.

Considerable apparatus has been moved into the new building and some of the rooms will be occupied before summer vacation.

Those of us who have postponed our extra practice until Summer will probably be drafted to transfer the contents of the old laboratories to the new.

Present indications point to a large number of enthusiastic mechanics who are going to work in the shop during June, July and August, "making up time."

Students boarding in the vicinity of Dix street are telling a fairy story about two Techs, disguised as giddy young girls, imposing on one of their classmates.

Scene: ground floor of Salisbury Laboratories. Time: midnight, twenty years hence.

First Burglar (apprehensively): "Where are we, Bill?"

Second Burglar (reassuringly): "We're right side de fire an' burglar proof vault. Will we open her up fer de scads?"

"Yes, you bet yer life we will."

"All right, boss. Here's de drill an' de powder an' fuse. Don't yer want em?"

"Naw! Gimme the axe."

If the student who sent a MS. by mail to this office entitled, "Our Native Country: Its Full-grown Strength," will kindly send five full-grown stamps, for its return he will save himself the blank pages of thirty-seven sheets of commercial note paper which might come handy in differential calculus or in general algebraic work. This is chest-

nut year and the W P I hasn't undertaken a contract to reprint portions of the Encyclopedia Britannica.

The following petition was found in a dusty corner of Boynton Hall:

"Professor ——— :

It being the first pleasant day which we have had and as we are desirous of practicing base-ball, we, the undersigned, do petition you to excuse the Junior class from — this Friday afternoon,"

It was signed by twenty members of the class of '86. There was nothing on it however, to indicate whether the prayer of the petitioners was granted. Let us hope that it was.

A Prep. who doesn't quite like the feed his landlady furnishes him brought matters to a head by the following conversation, which occurred at the dinner table recently:

"I like your dinners very much, Mrs. A., but for one thing. I have always been used to having relishes and sauces on the table at home and I don't seem to take any enjoyment without them."

"I will try and provide something suitable," replied the landlady with a gracious smile, as she casually directed the cook to take the beef-steak out and kill it. "Have you any particular one?"

"Yes'm," replied the '92 man, as he got a fresh grip on the chicken, "Nitric acid."

Four extra pages with this month's issue.

John W. Burke, '87, editor-in-chief of Volume II. of the W P I, and now an associate editor representing the Alumni, has been taken into partnership by T. F. Chappel, civil engineer, Pawtucket, R. I.

Mr. Fred. E. Knight of the Washburn Shops has invented a little device for opening letters which promises to be of real practical value. It consists of a small knife of peculiar shape mounted on a metallic base, preferably of brass, which can also be used for a paper weight. The insertion of one corner of the envelope under the knife and a quick motion of the hand opens a letter in an instant, without any danger of injuring the business ends of \$1,000 checks which may be concealed therein. The invention ought to fill a long-felt want with business men who use the slow methods of the pocket-knife or scissors.

The Seniors (?) played ball with the Worcester Academy nine, March 23, and were defeated by a score of 8 to 4. The mud seemed to embarrass some of our players.

Students who misbehave in the Salisbury Laboratories will be put into solitary confinement in a dark, dungeon cell on the ground floor. Western exchanges please copy.

Students practicing in the boiler-room often think of the adage, "A watched pot never boils," when the steam is down to fifty and George's step is heard coming down the stairs.

A Middler who usually brings his dinner every day appeared the other morning minus his dinner basket but provided with a large bottle of milk. He was in training for the physics exam.

Another machine at the shop is doomed. This time it is the old dromedary that has stood so long next the draughting-room that it is a chronic case of the ague. The Senior lathe will take its place.

Charlie Stonecutter, who sold pop-corn and gum-drops to the Prep. class of '90, is now chiffonier to the Washburn Shops. He has a good eye for rags but it rather cloy's him to take off a 75 lb. casting.

The Holyoke Machine Company of this city has completed a large hydraulic crane for the Worcester Steel Works, from specifications by Joseph A. Rourke, '87, who is draughtsman at the latter place.

Major J. W. Powell, Director of the United States Geological Survey, and last year President of the American Association for the Advancement of Science, will be the orator at commencement, June 27th.

A '90 man who has recently removed from the east to the west side of the city now lies awake nights to think of an excuse for tardiness to take the place of his old standby, "Was delayed by a freight train."

Metcalf, '91, who has been threatened with the German measles, ever since he took up the study, has gone home to recover. He says he shall not return until the measles and chapel are made electives.

J. Fred. Temple, '88, is in the wilds of Montana, acting as chief draughtsman for a surveying party of fifty men at work for the

Northern Pacific and Montana R. R. J. J. Donovan, '82, was formerly engineer-in-charge of this road.

The Middle class is departing from many time-honored precedents. Division A is at work in Mineralogy and when the mineral tenorite came up for discussion the other day they utterly neglected to ask if it had any relation to basite.

Bradford will have to hustle on Inter-collegiate day to do up Henderson of Amherst in the mile walk. Henderson is a Worcester boy and he got his early training by walking in every morning from Cherry Valley to the high school.

This is the time of year when school property, in the shape of the base-ball bats, masks, protectors and gloves, which have ornamented certain students' rooms for a year past, should be taken down and put to the use for which it was intended.

The article in the constitution of the W P I relating to members, has been amended so that there shall always be four members from the highest class represented on the board, three from the next lower, two from the next and one from the Apprentice class.

There is nothing like our examinations for training. You begin practice on a paper when you are in the poorest condition,—in fact, no condition whatever. You spend four hours over it and next day the professor informs you that you are in condition. Wonderful training!

Prof. Sinclair's house and barn had a narrow escape from destruction on the 24th of last month. The large field adjoining was rampant with burning grass and had so threatening an aspect that, it is said, the gentleman who rang the fire alarm endeavored to unlock the box with the handle of the key.

A scrap of paper with the following words was recently found in one of the corridors:

"low, shiftless. but more boldly, more ardently . . . unsatisfied." One of the professors had probably prepared an interesting lecture for his class, with these notes to guide his memory.

If Mr. Walls goes away again and remains very long it will be in order for Mr.

Mitchell to put up his famous sign which runs, "Mr. Walls is away. I do not know when he will return." For the benefit of the Preps. we will explain that it is a standing joke to approach the assistant foreman and ask, "Where's Walls?"

There will be a very pretty contest Inter-collegiate day over the running high jump between Ludington of Amherst and Amadon of Williams. Last year Ludington was first with 5 ft. 4½ inches and Amadon second with 5 ft. 3½ inches. Since that time Ludington has raised his record to 5 ft. 6½ inches, and Amadon his to 5 ft. 6 inches.

The shop has had some new letter heads printed and up in the left hand corner appears the familiar trade-mark which did such valiant duty for the Walter Smith drawing models. Somebody was quick to see that "W. S." stood for "Washburn Shops" as well as "Walter Smith," and it is now the adopted seal of the shop. It is neat and tasty, too.

Revised Statutes, No. 41. Voted,—that any student desiring to play marbles or jump rope or engage in any other athletic contest must present a written request to the Board of Trustees.

No. 42. Voted,—that students given to pulling out the gas pipes in the corridors by the roots, must report the breaks to John before the close of the term.

'89's preparations for Commencement are progressing merrily. A. P. Allen is valedictorian; E. G. Penniman, class tree orator; A. B. Kimball, historian; I. L. Rheutan, prophet; W. E. Hartwell, prophet's prophet; M. J. Bigelow, statistician. Music for the reception will be furnished by members of the Boston Symphony Orchestra. The ode and poem committee has not yet reported.

The catalogue of the Institute will not be issued till the first week in May. Some features of the make-up will be quite different from that of previous catalogues. In regard to admission, examinations may hereafter be arranged for at points outside of New England, provided there are several applicants who can at any one point be more conveniently accommodated. The list of residences and occupations of graduates will be more complete than ever before, only a few not having been heard from.

'90 is showing considerable in base-ball, having not less than four nines. In this way nearly every member of the class is brought into practice. The chemists and civils and mechanics have already had several squabbles among themselves for the supremacy. The features of the games were the base running of Fitts and the batting of Davenport. Rood had a dog to catch flies for him and Davis thought a caught fly was a sacrifice hit. Devlin lost his rubbers while trying to steal second.

The Athletic Association has voted to hold hare and hound runs every two weeks and to present the winners with silk badges. The first run took place, March 23d, about 18 miles being covered. The hounds didn't come in sight of the hares. The second occurred March 30. The hounds lost the scent and gave up the chase. The runs are under the charge of a committee consisting of Manager White and Capt. Lake of the eleven and Taylor, '91.

T. D. Gard of this city is making the prize badges to be awarded at the New England Inter-collegiate Field-day, May 23. They are 38 in number, 21 of gold, for firsts, and 17 of silver, for seconds. Each member of the winning tug-of-war team will receive one of the gold badges. The design is the same as that of last year. The winged sandal of Mercury, overlaid with a streamer bearing the letters "N. E. I. A. A." in blue enamel, appears on a brightly burnished shield which is pendant from a pin on which is engraved the event. The back of the shield is polished bright and inscribed, "Worcester, Mass., May 23, 1889."

A PARODY.

TELL us not in scornful numbers
Schiller wrote some easy books,
For construction is what cumbers
And its harder than it looks.

Schiller's real! The Prof.'s in earnest
And good "marks" should be our aim,
For if a miss perchance one makest
The Prof. says he is not sane.

The lesson's long. Time is fleeting,
And our hearts with all their might
Still like muffled drums are beating,
When he calls us to recite.

Trust no future howe'er pleasant,
For our German must be learned;
Work, work in the short-lived present
And receive a D well earned.

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All Work Warranted Satisfactory. Prices Reasonable. Novelties in Furnishing Goods.

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are made from the brightest, most delicately flavored, and highest cost GOLD LEAF grown in Virginia. This is the

OLD AND ORIGINAL BRAND OF STRAIGHT CUT Cigarettes, and was brought out by us in the year 1875.

Beware of Imitations, and observe that the FIRM NAME, as below, is on every package.

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Fall of 1888.

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A few years ago the best efforts of the manufacturers were devoted to Men's Garments, but to-day Young Men and Boys are receiving equally exacting care. We have to-day

THE NOBBIEST SUITS

For Young Gentlemen to be found anywhere. These goods are made to our special order and cannot be sold from custom made.

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Young Gentlemen can find elegant cloths of all kinds to select from, and SKILFUL ARTISTS to fit in the most stylish manner. All work in this department guaranteed. **PRICES ALWAYS LOW.**

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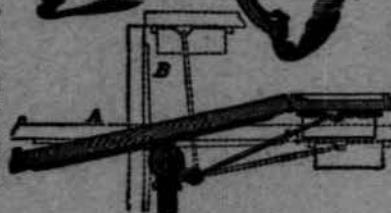
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Fig 1



Fig 2



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