5-15-1891

The WPI Volume 7 Issue 2, May 1891

Students of Worcester Technical Institute

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At times something turns up during our daily work, treating us to a surprise. On the whole, surprises in this Institute are not regarded with especial favor by any of the students. This is without question, because they are generally fatal to our future continuance in technical study. However, it occurs at rare intervals, that we are agreeably surprised and it is one of these intervals to which this article owes its origin.

It was not so very long ago that the mandate was proclaimed putting under ban active athletics. It is needless to speak any more upon that subject; indeed, we would not say what we have, were it not necessary to do so. This understood we will proceed. There was not a student here but who was led to believe that the Faculty sternly opposed anything in the athletic line. Then imagine our surprise, yes, more, our bewilderment, when the President of the Faculty acknowledged his faith in the efficiency of these very same athletics. When he, moreover, stated that the Faculty, who had previously frowned upon this question, were of the same thought as himself, we were dumb.

His words were received with the heartiest applause by the whole school. The Preps and Juniors showed their approbation in a very decided manner; the Middlers and Seniors, in a dazed, mechanical way. They, too, were bewildered.

ONCE more has it become the duty of this paper to record the death of another who was most closely connected with the Institute. It is a great misfortune to any institution when one of its strongest helpers is taken away, but doubly so when that institution is greatly in need of benefactors. Our loss in the death of Mr. Moen is much more than our loss in the decease of the Treasurer of the Board of Trustees. The one was to us the kind sympathizing friend; the other, merely the official to be respected. For even the humblest of his workmen, Mr. Moen had a cordial greeting and a cheering word, thus living, as he died, a true gentleman.
True, many, if not all the prominent men in the country, are entirely in favor of athletics. True, one great European nation owes its vast supremacy "to having thrown aside the classics and making room for hygiene." But we never for an instant dreamt of our Faculty being moved by this. The faint hope may have come to us, of other men and other times remedying affairs but we never wasted a moment's thought upon it. The statement, if made to almost any other body of students, would not have been noticed. In fact it would have been understood beforehand. Here it is different. So different in fact as to be worth the query: "What caused it?" Have our Faculty been reading works upon this subject lately, or have they been at all influenced by the earnest protests of the students in these columns?

We think it is a little of both. Whatever others may have believed, it has always been our opinion that the Faculty are a body of men who have the interests of the Institute at heart. They, no doubt, are laboring to place this institution at the head of all similar ones. They are said to have refused certain requests from a spirit of petty spite. But in support of this assertion, we have as yet received no proof. We recognize fully that the Faculty wish the Institute to reach a very high plane. Nevertheless we also recognize that the means taken to achieve this end have been, in a few instances, scarcely wise. We do not think it well to fly in the face of prudence and to dictate rules, the results of which will be to gorge us mentally and to starve us physically. We have never thought the Faculty a party of unreasoning men and always trusted they would give deserved attention to the student's side of this question. We admit the fact of our faith being considerably shaken in the past but hope "it will never occur again."

Certainly we do not expect our revered Ph.D.'s to consort with half-fledged B.S.'s. We are not displeased if such is not the case. But we cannot help saying that if one horse pulls west and the other east, the cart stands a poor chance of going north. Again, if the students were given a voice in this matter, in fact, could form a school senate, we venture to predict an end to these constant differences between Faculty and student.

Just about two weeks more and the examinations will be at hand. It does seem a trifle strange to speak about semi-annuals when we recall the fact that last term we had none to think of. Notwithstanding this, we must all experience the joys of that one June week. Not many of us care to encounter that week, yet there are some to whom it will be unalloyed delight.

It is the gala time of the "grind." How he burns the midnight lamp! What joy shines in his eye when he listens to his comrades as they utter dismal sighs at its near approach. For has he not conscientiously spent two hours per diem upon every lesson? Has he not abjured seductive boating and more seductive base-ball for the entire year? Now his triumph is at hand.

Last term there was no chance for
him to display his mighty brain power, but this term has restored to him his all, his former supremacy. He will walk to his seat with the glad knowledge of having worked out every problem in Bowser and of having every rule in the book by heart. Not one of the "origi-
nals" in Wentworth has baffled him. Whole pages of "Quisics" have been devoured, all for that one week. Great slices of German syntax have been cut away and preserved (not on paper), to be used in the glorious task of building marks. His personal stands high. The Faculty bows and smiles whenever the favored one is met. Oh! what an en-
viable lot is that of the "grind."

But we don't all feel very happy at present. That one week looks to us like a black patch over an otherwise fair month. We realize that we have not wrought six nights out of a possible seven. We know that sleep hath closed our eyes before our loved books hath been opened. We remember that we have listened to abstruse mathematical demonstrations, to panegyrics upon the good results of undivided study, and we remember, also, of studying that evening in the theatre. Pondering over all this, we await the coming of the exams with the same glee that we await the information: "How is this, Mr. H., fourteen unexcused marks?"

Stay, a bright light penetrates the gloom. After exams comes practice, after practice, vacation. Then we are in our proper element. Let the world go as it will. No thesis for us in summer, although we may be denied the exquisite pleasure of watching the others hustle in the fall, trying to catch up with us. No, nothing at all but vacation; relaxation for tired brains, and, in the race for fame, we stand a chance of heading the "grind."

It is presumed that about every one in the Institute has thoroughly digested the written regulations concerning bonfires and athletics. There is nothing in them that should be the occasion of criticism, unless it be the last article upon athletics. However, if we become too great in numbers and athletic strength, in fact, too mighty for one athletic association to hold us, the Fac-
ulty will, doubtless, enlarge our privileges to suit the growing needs. In regard to that bonfire, there is one thing especially pleasing about it;—the case was not tried in the daily papers. Whether the majority of the students were, or were not, aware of the rule prohibiting street parades, we cannot say. Really there is no need to.

There has been a disposition, on the part of all interested, to drop the matter. No grievous harm was done. The Seniors would have had that bonfire sometime. The sooner it was out of the way, the better. What difference whether forty or two hundred paraded? The noise would be just as great. Greater, in fact, for it was almost a settled thing that the Seniors were not to be allowed quiet possession of their prizes. This is not said to palliate any infringe-
ment of the Institute rules, but to state the matter as it really was. Also, we are not attempting to excuse any future demonstrations of like kind. We are not actuated by a feeling, to consider the result of the affair a victory for us,
since we believe the Faculty acted in a perfectly manly and praiseworthy way. They saw more real good could be done by passing over the matter, than by stirring up embers, which if left to themselves, would fast die away.

The Faculty have never been highly enthusiastic upon the subject of fires, and, we think, with cause. This lack of hearty co-operation in such sport dates back to the time when a few enterprising young men of '81 had their Half-way. Before the evening of the supper, a piece of lead pipe, eight or ten feet long, was procured and filled with nitroglycerine. Then the bonfire was built, almost under the office window, and the infernal machine placed upon it. After the explosion, the office looked like a wreck. Hence there are very obvious reasons why the attitude of our professors towards bonfires should not be wondered at.

The business manager of a college paper meets with many amusing occurrences when trying to obtain subscriptions or advertisements. In the first place it seems to be the prevailing belief of business men that the college paper is merely a big hole in which money is dropped without any suitable return being rendered.

It makes us smile when we learn of a certain man in this city refusing to renew his “ad.” on the ground that it was a waste of money. The smile is caused, owing to the fact that this man would never have built up the trade he has among the Techs had it not been for his advertisement in the W P I. There has always been a certain amount of school pride taken in the paper and, as a result of this, the merchant who advertised in it was always sure of being visited by the students. This is as it should be. The advertising column is an important one to the life of any paper. Because of this all students should pay some attention to the names of those, who are enough interested in the Institute and the paper, to advertise in the latter.

However, we do not consider this paper in the light of a contribution box. In fact, we are sanguine enough to imagine that all our advertisers receive a full equivalent for every penny expended by them.

For several weeks past, every class here, appears to be undergoing an attack of childishness. First one class has it, then another. To the glory of the Preps, it may be said they have never ceased being afflicted with it. The disease generally manifests itself about chapel time. Outwardly it comes in the form of a continual humming. A few start it and imitators are always found. Even during the reading of the prayer the noise is prolonged by a dozen or so funny (?) men. Now there is no use of telling the students not to do it because it is not right. They know that. But perhaps it might open the eyes of many if they were told that this horse play is not only tiresome but very disgusting. There is certainly no excuse for it; if there was the slightest, common decency, if not common sense, would speak against any such demonstration in such a place. Stop it, boys. You only lower yourselves when you behave so. There is a place
for everything; sport, fun, even humming. The chapel is no place for either of the three.

We are informed by a member of the Faculty that an editorial in the March number of the W P I was misleading. It was that concerning the failure to secure permission to join the Inter-Collegiate Athletic Association of America. The Faculty took no action on granting permission at that time, because the matter was never brought before the Faculty Committee in a formal way. It, however, appears from Article 4 of the "Bonfire Circular," that the present Faculty has made a rule in e tertum, that "no permission is to be given the students, or any organization among them, to join any inter-collegiate or other athletic league or association except that of which the Athletic Association of the Institute is already a member."

The base-ball season is drawing to a close, and scarcely a month of school remains, before foot-ball is the proper thing. Some have decried attempting to do anything on the diamond, and urged that all our energies be expended in the shadows of the goal-posts. Others, such as "Base-ball Crank," have written for more twirling of the sphere. The position of the W P I on this subject, was distinctly stated in the last number. We advocated each in its place, but also suggested that preparations for foot-ball might be made in the spring without interfering with base-ball.

Again we wish to mention this and urge it more fully upon the attention of the student. We had two or three weeks of base-ball this spring, and then were beaten 30 to 6 in our first game. Is there any lesson to be drawn from this? Was it the fault of the manager? Was it the fault of the men? Neither. A nine chosen hurriedly from a few, almost unpracticed men, cannot hope to compete with players who have been selected and in training for weeks. Why can't we profit a little from experience, and take some steps this spring toward choosing next fall's eleven? If a few practice games could be held now in foot-ball, we would be ready to settle down for business in September, and not waste the first two months in giving the men an idea of what the game consists, and trying to find who knows anything about it. Of course it would be a very radical step for this Institute to prepare for an athletic contest more than a week beforehand, but we are rash enough to suggest it.

Within the past few months, representatives, or more properly speaking, members of the Institute have earned for us an unpleasant reputation by their "tough" behaviour outside. We learn, even, that our nine manager was troubled in arranging a game with a local school, because at a previous one the Techs conducted themselves so as to be obnoxious. Making all allowance for the well-known crankiness of the authorities at the school in question, the fact remains that something must have been done out of the way, or else their objections to us would not have found expression as they did.

Again, a few days ago, one of our class teams played a game with a nine
composed of fellows, for the most part, from a hard quarter of the city. They were dressed in poor clothing, and some of them even barefoot, but nevertheless, almost without exception, were perfect gentlemen in behaviour. What excuse, then, was there for the guying which our men indulged in, guy ing directed not only at the game the visitors played, but at their dress and peculiarities? We here claim to be well-bred and to come from respectable families. Let us show some signs of it, and not be outdone in politeness by those about us, especially when we are the hosts.

We would like to remind our readers that this is a school paper, or at least is meant to be. If you have an item of news, or a joke, or a suggestion to make, write it up and hand it to an editor. Don’t think it too short or yourself not the one to propose it. It may be something that everybody has thought of but not expressed in words. If it is, everyone will be pleased to see his own views in print. If not, it will set everybody to thinking. Your opinion is worth as much as an editorial brother’s. A two-inch article in the last number concerning a flag started the whole Institute, and yet it was contributed. A man had an idea about an everyday, commonplace thing, he expressed it, and behold, it was just what we all were waiting for. “Give us a trial.”

But for the caprices of the weather, we might be able to give our readers a full report of the Field Sports. Unfortunately, that rain came at the wrong time, and, as a result, both the sports and the account of them have had to be postponed. However, in our next issue they will be fully written up, although it must be at the risk of serving stale material.

PHILIP L. MOEN.

Philip L. Moen, the President of the Washburn and Moen Manufacturing Co., and since 1869 a trustee of the Polytechnic Institute, died at Worcester, April 23. His life touched the lives of more people than that of any other man in Worcester, yet from that very fact few knew him intimately. We can write of him only as related to the Institute, and as a man having certain characteristics worthy of our notice and imitation.

He was fond of the Institute; often brought visitors to it; had pride in its growth and in the efficiency of its training; employed its graduates freely, and frequently advised young men to avail themselves of its advantages.

In 1883 he gave $25,000 to the endowment fund, and almost every year since, gave smaller sums for apparatus or books, or in aid of individual students, and last June presented to the Institute a fine portrait of Mr. Ichabod Washburn, his former partner and the founder of the Washburn Shops. Notwithstanding there were inconstant demands upon his time, yet he very constantly attended to his duties as one of the Committee on Current Expenses, and for ten years was the treasurer of the Institute.

His personality was marked. One who had seen him would not soon forget his erect, elastic figure, or his genial face. The grasp of his hand was in itself a benediction, and his greetings were in substance and form like apples of gold in pictures of silver. His business capacity was remarkable, and coupled with Mr. Washburn’s mechanical genius, ensured the success of an enterprise which has become the largest wire industry in the world. The elements of that capacity consisted:

(1) In a wonderful mental alertness. He would grasp the most salient points of a suggestion; measure their relations and
express a judgment while most men were struggling to understand the main idea. This native quality enabled him to transact all ordinary business with great rapidity. He constantly did the work of two or three able men; adding for some years to his duties as president and treasurer the very onerous labors of superintendent of the Washburn and Moen Company's immense works, while at the same time he was director or trustee of six or eight financial or charitable organizations, to which he gave intelligent supervision.

(2). He was eminent for his fidelity to every responsibility, duty, and trust. He served the corporation of which he was the head as unremittingly and conscientiously as if it were every whit his own private affair. He was early at his office; he mastered all the details of the business; his eye scanned every process; he came into personal relationship with a very large number of employees; he was often the last man to leave the counting-room. Every other duty assigned him he performed with the same faithfulness.

(3). He was systematic and prompt. He wasted no time. He was punctual in his engagements; very rarely being a single minute late for any appointment, and often being the very first to appear. His decisions were quickly made and rarely altered. Hence it was easy to do business with him, and he spurred every one who came in contact with him to celerity and despatch.

(4). He was kind of heart and uniformly courteous in manner. To cultured and uncultured, to those in lowly or in high station, he was ever the same genial, cordial, refined Christian gentleman. This courtesy was a great element of influence in his contact with men, whether friends or strangers. It won customers for his manufactures, made him respected and beloved by his workmen, and gave him a host of personal friends.

His benefactions were numerous—more of them private than public—and often soliciters for aid of worthy causes received from him more assistance than they dared ask or expect.

His funeral occurred Monday, at 3 P. M., April 27. His remains were viewed in the morning by over 2,000 employees of the Washburn and Moen Company, and more than that number were in the line of escort to Rural Cemetery in the afternoon. The exercises of the Institute, and, very largely, business throughout the city were suspended after 3 o'clock on that day.

In his death the Institute loses a fast friend and a wise councillor; the circles of business an able coadjutor; the community a public-spirited helper in every good work, and the Christian Church a consistent member and a loyal and faithful servant.

THE ALUMNI CORPORATION.

Advantages of the Corporation over the Present Association.

At the Annual Meeting of the Alumni Association, held the twenty-fifth of last June, it was voted: that the Association is in favor of Incorporation. The purposes of incorporating, as stated in the agreement of association, are to unite the graduates of the Worcester Polytechnic Institute, in order to hold meetings at stated times for the discussion of the affairs of the Institute; to hold in trust such property as the Association may acquire from its members or others, from time to time, to be used for the benefit of the Institute, its students and graduates; and, to aid the Institute in such ways as may be feasible.

On the sixth of March, six of the Alumni met at the Bay State House to take the necessary steps with this end in view. The By-Laws approved by the Association in June were adopted. A President, Secretary and Treasurer, and an Executive Committee of seven, of which the President and Secretary are members ex-officio, were elected. Before the Charter of the Corporation is issued, a sworn return of this must be made to the Commissioner. A copy of the records and the certificate of organization have been sent to the President, in Europe, for his oath, so that the Corporation will not be complete until the early part of this month. Then the members of the old Association will be voted members of the Corporation, so that all may dine in June as The Alumni Association of the Worcester Polytechnic Institute and with all the rights and privileges of a corporation legally established.

The foregoing may be taken as official news, and the Association may be considered as already established. In a conversa-
tion with a former member of the Institute. It was learned that the plan proposed was similar in its aims to that which has met with so much success in the cases of Harvard, Yale and other colleges; that is, to practically deliver over the government of the Institution into the hands of the Alumni. It is known to nearly all in the Institute that there exists a certain fund here termed the Thompson Fund. This money is being constantly added to from year to year by the Alumni Association. It now amounts to between $2,000 and $2,500. Much is expected from this fund, probably more than will ever be realized, judging from its present rate of increase. However, the prime object is, in time, to endow a professorship and to have a representation from the Alumni in the Board of Trustees. The original idea was, and is, to have three of the graduates upon the Board.

Not a great deal can be done; first, because the Institute is comparatively young; and second, because the Alumni does not represent nearly as much wealth as similar organizations in other colleges. Hence it is that although the work may be pushed with all possible vigor, it necessarily must proceed rather slowly. But the time will come when not only will the Alumni have a controlling vote in the Board of Trustees but, as a matter of necessity, a majority in the Faculty.

The results of such a happening will be most beneficial, since the graduates have attended the Institute as students and have watched its work as past members. It is obvious, therefore, that a man who has been through the mill is the proper authority to be consulted upon the sharpness of the knives. Moreover this man, having seen the Institute from without, has certainly had his previous judgment corrected by the lapse of years. The things at which he smiled in school days have undergone a change, so that beneath the calm scrutiny of a more mature eye, the rash impressions of former days may have been softened or rendered more apparent, more striking. This is the argument of the Alumni, now about to be incorporated, and no one can say but that this argument is based upon the results of a very rigid course of reasoning. In this instance practice supports theory; assurance is rendered doubly sure by most satisfactory proofs.

Those, who in the past, have declared that with the Alumni holding the rein, discipline would be relaxed and legitimate authority subjected to insult, have seen the untruthfulness of their words. They have lived to witness the demonstration of the fact that although a body of men, chosen from the four points of the compass, may manage the affairs of a college skilfully, yet to manage those affairs ably, requires the impartial opinions of the man who has obtained a thorough knowledge of both sides of the question.

THE REVOLUTION OF '91.

(A la Les Miserables.)

"** The coffin borne round the Vendome column *** the Polytechnic School coming up so unexpectedly against orders to remain at home."

For several days there had been in the air vague rumors of something to come; a kind of nothingness that meant a good deal; suggestions of murder without an assassin. Nervousness and expectancy were everywhere. Mysterious actions, seemingly disconnected and independent, took place in rapid succession. In the Rue de la Lilie, an African was called aside, a sou thrust in his hand, a finger placed on the lip, and no more. Up in the Faubourg St. Dixie, old chapeaux, long since unused, were brought from their places of concealment, and reburnished.

In another part of the city, a drum major might have been seen talking busily with a youthful peasant. Two boys met on the Rue Haut Terre. One pulled his coat aside and displayed a roll of cloth; the other winked, they passed on. A workingman in blue blouse surreptitiously painted a large cane in a neighboring shop. In the Rue Guillaume, another workman was busily tacking cloth to a frame. A hat dealer asked a question of a customer. "Wait and see," was the only answer. An apprentice picked up a scrap of paper. It said: "9 P. M. ** oak." A doctor found a pile of tar barrels in a secluded spot. Another doctor was twice in earnest conversation with the Prefect of Police. A minister (?) began to address a meeting. There was a
hush of expectancy, then a smile and rapid exchange of glances. Some one bought a cord of wood. One man handed another a roll of papers. It contained incendiary matter. Suggestions of kerosene and need of tight pants. Everywhere there was the same confusion apparent. The climax must come, and come it did.

On the evening of the first of May, about 9 o'clock, a party of students might have been seen quickly passing through the Rue Goulding. At the corner where this joins the Rue Haut Terre, they turned to the left and disappeared in the darkness. Away up in the Faubourg St. Dixie, a street lamp shone for a moment on three tall hats as they passed under. In every direction at various moments, came the tread of numerous feet and the clink clank of clubs. These noises and groups seemed rapidly to concentrate. But where?

In the darkness about the Institute de Polytechnique, a motley crowd was gathering. All was confusion. A “bus” full of girls drove up rapidly, unloaded, and disappeared in the darkness, which at that moment seemed to grow still denser. There was a hurried crowding, a number of subdued screams; sounds like the pulling of corks, a final squeeze, and the lines are formed.

There are times when all men have interests in common. Heat makes fusion; excitement brings union. In the revolution of ’91 all classes were represented. The aristocracy and the Middle class; the veterans of the mob of “93”, and the apprentices just from work; mechanics, chemists, engineers; muscle and mind; devil and saint. One sees a fright; one lifts the mask; one smiles. It is his brother.

But to return. The line forms. The drums whistle an air and the pipes beat time. A grunt from the “common people”; two more grunts; the procession moves. At the first corner torches are distributed. The march proceeds. The hated siren, Pol Econ, bound and trembling, is carried at the head of the column. There are yells, more grunts, fire. The military dares not interfere. One street after another is traversed. The houses of the nobility are attacked; the crowd approaches its starting-point. A female ghost rides by, and is greeted with yells. The circle is formed, the victim led forth; a trial is held. Master minds control. Roisy, Pere-mun, Ed D——. There is no defence. Guilt is proclaimed; a flash of fire—the revolution of ’91 has done its work. One blames and one exonerates. Posterity must decide.

AN EDUCATION FOR AMERICANS.

A Few Remarks Concerning the Practice of Sending Children to Europe for an Education.

About three or four weeks ago there was a meeting of the Schoolmasters' Club, in Boston. During the exercises a Harvard professor delivered an address, expressing his opinion of the senseless habit of sending mere school children to Europe for an education. By school children he did not refer to young men and women, but to young boys, who before they had even seen the High School, were dispatched with all speed to the superior grammar schools of England, France or Germany.

We, of course, consider it perfectly proper for a young man, after graduating from the colleges here, to spend some time in Europe. We fully understand that the medical man will be greatly benefited by a course of lectures in the universities of Germany. We certainly admit that there is nothing better for the engineer than for him to study the famous Roman roads or to spend some time in the examination of bridges, fortresses and passes built in the days of the empire.

But we cannot see where the great improvement is to be made in Augustus or Clara by sending them off to an English or French boarding-school. We are perhaps behind in these things. We should at once comprehend that the fate of the nation depends upon Augustus being thoroughly conversant in the genuine droll of the British top. Also, we should at once feel that it is of the utmost importance for Clara to acquire a pure French accent and, incidentally, to learn the fashions and foibles of La Belle Paris.

Unfortunately we do not comprehend. We think that to send children, in their teens, from the excellent preparatory schools of this country to the questionable ones “over the water,” savors slightly of a desire to exhibit the extent of the family exchequer. And always so, if the afore-
mentioned exchequer has been increased in size by a sudden rise in the oil or pork market.

But, really, we do not understand how it can be possible for an American to make such a mistake. We wonder whether he thinks he is doing a praiseworthy act or not. It does seem improbable that he ever heard of the American school.

New England prides herself especially upon the superiority of her school system over that of any other part of the world. Yet it has been shown that many New Englanders are sinners in respect to educating their sons and daughters abroad. The principal objection brought against this custom was, that the strict character of the foreign school is prejudicial to the health of the ordinary boy or girl. One of the local papers, in discussing this, makes quite a point. It declares that the mind of the youth is too ready to imbibe foreign ideas. These ideas, in most instances, being utterly un-American.

For this reason, if for no other, the practice should be condemned. Another argument is that these ideas are injurious to the lad's future success, if he hopes to enter upon a business life in this country. Those two arguments are very strong, indeed, but we cannot conceive of business men being made of such timber.

Our idea is that the boys are destined to be our future heavy swells, yachtsmen and the like, the girls our future society babs. Still, we are not authorities in this matter, and are not sure of what we state. One thing we are sure of, however, is that Americans should be able to find schools and colleges enough, in this country, to interest their future heirs and heiresses until the latter have, at least, attained their majorities.

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DOWN TO THE LAKE.

If a man remained in this Institute no longer than three days and at the end of that time did not know Lake Quinsigamond existed, we would be struck dumb. But we trust such a calamity will never be occasioned by such a cause. Whatever may be said of Dewey's Field or of Elm Park being the great gathering places of the Techs, both places must yield precedence to the Lake.

Some of us remember the time when everyone spoke of going down to Long Pond. But the Indian tongue lends us its more musical accents and now we say "down to Lake Quinsigamond." Be it under the old name or the new, the Lake has always laid claim to much of our time. Even in winter, we do not forsake it. The old skates are repolished and vie in dazzling brilliancy with the same old stars. Happy is the Tech who has the joy of teaching a young lady the mysteries of gliding, cutting the figure eight, etc. At times, his joy turns to sorrow if a false friend leaves him to take care of two or three other young ladies, and, as a natural consequence, leaves him to pay all the fares. Peculiarly poignant are the pangs of grief, if our Tech walked down to save his own fare. Such things have an ending and remembrance sweetens them.

However pleasant the lake may be in winter, it is far more so in summer. Then we see Boynton Hall out in full force. Everyone, even away down to the Prep, is eager to astonish the onlooker by his oarsmanship. Sometimes, not very often though, a grind is discovered on the bank. Any kind of exercise is very injurious to that species since it is predestined to live good and to die young. Nearly all the rest of us find leisure moments and use them upon the water.

Yes, we confess, we have paddled canoes and dugouts when we had better be employed in getting up reliable cribs for the approaching exams. The theorem of the deeply lamented Mr. Sturm has been most outrageously overlooked. M. Ganot, Mr. Bowser and several other worthies have been treated with deplorable neglect. Yes, we remember, a few depraved youths boasting of not having opened their books from Saturday noon to Monday morning and all on account of the fatal influence of the Lake. In past years there was certainly no excuse for this, but this year there is. The excuse is summed up in the words: '92 has a four-oared crew.

It is worth millions to watch those four oars majestically distribute barrels of water upon the inoffensive scenery; to see the noble shell veer simultaneously to the four points of the compass; to hear the patriotic remarks of the gallant crew, when a "crab" is encountered and to listen to the anxious
forebodings of the interested spectators. It is rumored that after the men become proficient enough, they will enter the contests for the amateur championship of America. This may be true, but the matter is still shrouded in doubt, all the parties concerned looking very mysterious when the subject is broached. However, it only goes to prove that some can appreciate the advantages of such a sheet of water. And, indeed, it would be rather strange if we all should not be able to do so, since by working real hard it is possible to acquire, among other things, a rich brown tan and hands full of blisters.

**CROSS-COUNTRY.**

Perhaps not in the entire history of cross-country runs, held by the Institute, has such a successful series been given as that just finished. The greatest enthusiasm was manifested by competitors and spectators. The runs being but four or five miles, gave a good chance for the spectators to see some very pretty brushes.

In the runs held last year, the distances were altogether too great and took too much time. The most ardent supporter of cross-country must have felt his spirits fall considerably waiting out in the cold air for men ten miles away. And, when the contestants finally hove in sight, what a gay sight it was to see them, tired and perspiring, *try* to spurt! The best change possible was to reduce the number of miles by a third or a fourth. The directors saw this, and, being wise, made the reduction. The result is that men, who never bothered about watching such a run, are now earnest champions of the sport. The action of the directors has had the effect of stimulating new men. This is why there has been more real interest taken this year then any other.

The first run of the series took place Friday, April 17. The course was from the corner of West and Salisbury streets to Barber's Crossing, by way of Salisbury street, Park avenue and the West Boylston road, and back again to the starting place. This distance is slightly over four miles. At 3 o'clock, when Referee Zelotes Coombs sent the men off, there were twenty-three starters and fully two hundred spectators present. The starters were: '91, Dadmun, Taylor, Gibson, Armstrong, Stearns, Hodge- man, Rice, Whittaker, and Kimball; '92, Smith, Fish, Southgate; '93, Butterfield, Child, Andrews, Dyer, Strong, Stone, Farwell; '94, Gallagher, Cobb, Harris, and Putnam. Until Chadwick square was reached, Gallagher held the lead by a few yards.

At the turning point Dadmun had passed him. Stearns, Smith, Andrews, Taylor and Strong were bunched together.

At the ice-house and Chadwick square there was no great difference in the relative positions of these seven, except in the case of Taylor, who at the square seemed hopelessly behind. Meanwhile Gallagher and Dadmun were having an interesting struggle for first place. When the corner of Salisbury street and Park avenue was reached Dadmun spurted and crossed the line 18 1-5 seconds ahead of his plucky competitor. Dadmun's time was 23 minutes, 11 3-5 seconds.

Taylor came in third, three seconds behind Gallagher, who walked in. The rest arrived in the following order: 4, Smith; 5, Stearns; 6, Strong; 7, Butterfield; 8, Harris; 9, Stone; 10, Cobb; 11, Southgate; 12, Andrews; 13, Fish; 14, Whittaker; 15, Dyer; 16, Gibson; 17, Putnam; 18, Rice; 19, Farwell; 20, Armstrong. Since but twenty were entitled to points, no account was taken of the others. The first three men received ribbon badges.

In this event '91 made 70 points; '92, 35; '93, 58; '94, 47.

F. E. Bradford '91 was official time-keeper and scorer in this as well as in the next two runs. The judges at Barber's Crossing were: Fitts '91, Warren '91, and Norcross '94. Gallagher's clean running was favorably commented on by almost every one present.

With the possible exception of the last run of this series, much more excitement was caused in the second one than in any ever held by the Athletic Association. April 24 was the date upon which this run took place. The course was from the corner of West and Highland streets to Coes square, by way of Highland street and Park avenue and return. It was about the same distance as the other course.

The judges at the turn were: Dunbar '91, Sinclair '93; at finish, Culley '92, Warren
Morse '92 assisted Bradford '91 as timer. This time there were thirty-three starters and fully two hundred and fifty spectators. Sixteen of the men who took points in the previous run started in this one. These sixteen included the first six. Hence seventeen new men toed the scratch. Something must have been the matter with Gallagher, for he did not seem to exert himself in the least. On this account Dadmun did not find himself obliged to show what he actually could do; since Taylor, although an excellent half-mile runner, does not pretend to excel in a five-mile race.

The first six men breastfed the tape in the following order: '91, Dadmun, Taylor; '92, E. L. Smith; '93, Strong; '91, Stearns; '93, Butterfield. The score by points for the individual classes was: '91, 71; '92, 26; '93, 61; '94, 52. Many of the men finished almost in little squads, so that the contest was for a long time in doubt.

May 6, the date of the third and last run of the series, was extremely exciting. Twenty-five starters appeared; all the strong ones were there. This time the run was a straight one, over Highland street to Tatum.

The men rounded the Tatum Post-Office as follows: Stearns, Smith, Dadmun, Taylor and Strong. The rest were plodding away as best they could. On the run home Dadmun dropped behind to cheer up a few of his classmates, but quickly again regained the lead and crossed the line first in fine style. The closest contest of the series was between Taylor '91 and Smith '92 for second place. It was a continual spurt between these two for over four hundred yards. But the '92 man was the stronger and forged ahead of his opponent, beating him by about two feet.

This run was over five miles long. Dadmun's time was 29 minutes, 24 2-5 seconds. The score for the series was: '91, 209; '92, 297; '93, 215; '94, 109. The pennant was awarded the Juniors, who beat the Seniors by six points. It is not too much to say that the '91 men were almost dumbfounded upon learning of their defeat, since they imagined the pennant must be theirs in view of the fact that three of their runners were among the first five, and they expected that surely enough men could be found in the class to fully establish the victory. But it was not to be.

Dadmun won the gold medal with a score of 60—three straight firsts. Taylor the silver medal, with 55 points. Smith received the bronze medal, with just one point below Taylor. Strong and Stearns, 49 and 48 points respectively, were given ribbon badges. It must have been very clear to any one who witnessed these runs that the entire Institute took more real enjoyment in them than in anything else we have had here for a long while. The aggregate attendance at this series was certainly over seven hundred, which is a considerable number to be present at an ordinary cross-country series.

TECH VS. HARVARD '92.

A Base-Ball Game Which Was a Success Financially, but a Poor Exhibition.

Through the energy of Mr. Charles H. Dunbar, manager of the Tech ball team, a game was arranged with the Harvard class of '92, and by judicious advertising a crowd of 500 people was gathered Friday, May 1, to witness the massacre. The ladies turned out in large numbers, and almost every student in the Institute was at the Grove street grounds ready to cheer his representatives. And such cheering! Dr. Kinnicutt must certainly have been pleased with the way the boys followed his suggestion. Lake, W. P. I., Harvard '92, was cheered as he came upon the ground. Numerous Tech graduates were seen upon the grand-stand, among whom were: C. A. Clough, '83; E. G. Penniman and E. W. Desper, '89; H. E. Austin, H. P. Davis, P. B. Morgan and S. H. Rood, '90. Dr. Kinnicutt represented the Faculty.

The game was a walkover for Harvard. A detailed account would weary our readers. Harvard did considerable bunting at first, but finally sized up the Tech pitchers and lined out hits at will. The Institute nine showed great lack of team work, but this was not all. They could not field or hit as a Tech nine ought. The men who played in this game could be trained to give even Harvard '92 a hard rub. Slow work was as much a cause of the Tech's defeat as fumbling. It could not be expected that a nine picked out two or three days before the
game, and actually not fully decided upon until the day itself, should show up remarkably well. Said the Spy: "Tucker's second base play was the only redeeming feature of the Tech's game." Wrem seemed to be Harvard's star player. The following score points out clearly enough the qualities of the Institute nine:

**HARVARDS, '92.**

<table>
<thead>
<tr>
<th></th>
<th>A.R.</th>
<th>B.</th>
<th>P.O.</th>
<th>A.</th>
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<tr>
<td>Wrem, 2b.</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>3</td>
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<td>Neff, c.f.</td>
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<td>Hale, r.f.</td>
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<td>6</td>
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<td>0</td>
<td>2</td>
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<td>1</td>
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<tr>
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<td>3</td>
<td>4</td>
<td>1</td>
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<td>3</td>
<td>1</td>
<td>3</td>
<td>2</td>
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**TECHS.**

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<th>E.</th>
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<td>1</td>
<td>0</td>
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<td>2</td>
<td>1</td>
<td>9</td>
<td>3</td>
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<td>Hammond, r.f.</td>
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<td>1</td>
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<td>Morse, 1b.&amp;p.</td>
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<td>1</td>
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<td>Culley, s.s.</td>
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<td>1</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Southgate, l.f.</td>
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<td>1</td>
<td>0</td>
<td>1</td>
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<td>Lincoln, 3b.</td>
<td>4</td>
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<td>0</td>
<td>6</td>
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<td>0</td>
<td>1</td>
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<td>Parks, c.</td>
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<td>0</td>
<td>0</td>
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<td>Allen, p.</td>
<td>2</td>
<td>0</td>
<td>0</td>
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<td>Dillon, p.&amp;1b.</td>
<td>1</td>
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</table>

**Totals,**

|         | 45   | 30  | 15   | 24  | 9  | 6  |

Earned runs, Harvards 5; two-base hits, Hale 1, Neff, Lake 2; three-base hit, Hale; sacrifice hits, Lake, Allen; stolen bases, Wrem 6, Neff 2, Young 2, Brown 3, Lake 4, Chase 2, Hollis, Dadmun, Southgate, Culley, Gallagher; double plays, Tucker, unassisted; first base on balls, Wrem 2, Neff 3, Hale, Brown 4, Chase 3, Hollis, Tucker 2, Gallagher; hit by a pitched ball, Neff, Young, Curtis, Lake; first base on errors. Harvards 11, Techs 3; struck out, Hale, Curtis, Chase, Lincoln 2; passed balls, Gallagher 4, Parks, Hollis 2; wild pitches, Dillon 2, Morse. Time of game, 1:45. Umpire, William McAleer.

The game netted the Athletic Association $50.00, which will go in towards paying the expenses of the athletic team at Springfield.

**CLASS CHAMPIONSHIP.**

The Base-Ball Games for the Championship of the Institute.

The game with Harvard '92 seems to have somewhat dampened the ardor of the base-ball cranks; still, the class series is too far under way to be given up, and too much enthusiasm has been awakened among the non-combatants to do such a foolish thing. The first game was played Saturday, April 25, before a large crowd of students and others. The day was too cold for decent ball-playing, and the spectators had to arrange foot-races and scraping-matches to keep themselves warm. The '94 youngsters were armed with tin horns, which they blew continually until a stalwart and officious '92 man made an example of one Prep by taking away his horn and "severely reprimanding him." Gallagher and Dwinnelle took the honors for the Preps, while Dadmun and Reinbold did nobly for '91. Teddy Phelps had on his customary base-ball lunacy, and tried hard, but in vain, to make his men "play ball." "I wish I had my fish-net for you, Ned," he yelled over to third base, but Teddy and his outfielders couldn't play the game alone, and so the Preps captured the first game of the series. The score was as follows:

**PREPS.**

<table>
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<tr>
<th></th>
<th>R.</th>
<th>B.</th>
<th>T.B.</th>
<th>S.H.</th>
<th>P.O.</th>
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<td>Whipple, r.f.</td>
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<td>3</td>
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**Totals,** 24 23 32 3 *26 15 11

*Booth out, hit by batted ball.

**SENIORS.**

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<td>0</td>
<td>1</td>
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**Totals,** 20 12 12 4 27 16 18

*Innings, 1 2 3 4 5 6 7 8 9

'94, 0 3 1 3 2 2 1 8 4-24

'91, 4 1 0 6 0 3 1 0 5-20
Three-base hit, McTaggert; two-base hits, McTaggert 2, Gallagher, Dwinnelle, Abbott, Dillon, Gordon, Harris; double play, Dwinnelle; struck out, by Allen 12, by Phelps 2. Umpire, Culley.

INTERCOLLEGIATE FIELD-DAY.

Prospects of the Various Colleges in the Com ing Sports.

The field-day of the New England Intercollegiate Athletic Association will occur May 27, at Hampden Park, Springfield, Mass. The great struggle for the championship of the day will probably be, as usual, between Amherst and Dartmouth. The former will be so near home that an army of contestants from that college will be present, fifty-six entries having been made by Amherst. The New Hampshire boys have not been talking very loudly, but they have shown in the past a power of "getting there" when least expected.

Amherst has all of last year's winners on her team this year, and our correspondent informs us that all are in good condition except Ludington, who has for three years won the 120-yards hurdle race. The event will probably go this year to Upton, of Amherst, or Ralston, of Wesleyan. Gregg and Wells have not thus far done as well as last year, but will doubtless be "in it," for the former is record man in the mile walk, and the latter holds the records for the one and two-mile runs. Alexander has this year broken the Intercollegiate record for the shot put, scoring 36 ft. 7 in. Ewing will try to beat his record of 9 ft. 3 in. in the pole vault. In throwing the hammer, Abbot, of Dartmouth, will have to look out for Allen, of Amherst, who recently made a throw within 9 inches of the Intercollegiate record. Amherst does not put much dependance upon her Freshmen, but Pellet, '94, is running the 100-yards dash in 10 1/2 seconds, faster than the Association could boast of until Raley, of Amherst, last year made the record 10 2/5 seconds. Shattuck will be in the quarter-mile run and will have numerous men to fight shy of, among whom are Jackson, of the same college, and Dummer, of Worcester.

Dartmouth has lost Williams, who last year made the record of 23 2/3 seconds in the 220-yards dash. But she still has Ide, Potter, and Abbot, all of whom won firsts for the "Wah, Hoo, Wah" college last year. Abbot holds the record of 85 ft. 10 in. for the hammer throw, and if he could do what he is said to do at Hanover, he would smash that record by several feet. Dartmouth will put in a tug-of-war team to contest with Williams, the only other college which countenances this barbarous sport. Dartmouth has a number of less well-known athletes who will endeavor to bring victory to the "Dartmouth green." That is a great place for dark horses and other equines.

Williams claims a mortgage on the tug-of-war. Lovell, of last year's team, has graduated, but Frien, who takes his place, is a good man. The team is endeavoring to work off surplus flesh, being considerably overweight. The phenomenal Sam Crook, who brought first to Williams last year in the standing broad jump, and beat the world's record for the standing high, is out of college, but Williams pins faith on Edgerton, who is especially good in the broad. Peters has a record in the running high better than the intercollegiate, but with a bad knee and ankle, is not expected to do much. Williams concedes the half-mile run to Dummer, of Worcester, and the one and two-mile runs to Wells, of Amherst. Chase is the only candidate of Williams for the walk, but this event is considered mortgaged to Gregg, of Amherst. Our Williams informant says his college is in bad shape, and that Trinity, Brown, and Vermont are quite as likely to give Worcester a hard rub for third place as Williams.

Wesleyan has a fast 100-yards man in Day, '94, who lately ran in 10 1/2. Slayback is, however, considered a better man in this event, and is also a fast hurdler. Cutts is throwing the hammer in good shape. There is likely to be quite a contest over the pole vault, and Blundell will be in it. Wesleyan expects to make a much better showing this year than ever before, and will send 11 men to the meet.

Trinity has lost Hutchins and Gesner, who last year won seconds for their college. Still, she will make a big kick for a few points and will send eight men to win them.

The University of Vermont sends but
three representatives, but they are there for business. F. S. Grow, of whom so much was said last year in connection with throwing the hammer, will have a chance this year to show what he can do.

The Worcester Polytechnic has nine men entered. Harry L. Dadmun is in for the following events: 100-yards dash, 220-yards dash, quarter-mile run, half-mile run, 120-yards hurdle, 220-yards hurdle, and running broad jump. Elmer H. Fish has entered for the running high, standing high, and standing broad jumps. J. M. Gallagher and E. L. Smith are to start in the one and two mile runs. E. A. Taylor runs the half-mile and mile. F. E. Bradford will go into the mile walk. D. A. Bullard into the standing broad jump, and R. J. Clapp into the shot-putting contest. C. H. Dunbar is entered for the two-mile bicycle race. The fact that Dadmun is champion amateur half-mile runner of America makes the other colleges hold their peace concerning the half-mile run. Fish last year won second in the standing high jump. The Tech's dark horses are very promising, and with their help, Dadmun and Fish ought to do something for Worcester. Still, we should not be too confident. Last year, with comparatively favorable prospects, we were obliged to take fifth place instead of third, which we coveted.

The fact that the sports are to be held in Springfield instead of Worcester should not prevent a large number of Techs from being present. At least 100 ought to go and help cheer their comrades to victory. Such occasions come very few times in a lifetime, and we guarantee that everyone who goes to Springfield will not regret his outlay of time and money. Let a leader be selected and some good, lively cheering done.

The executive committee of the Intercollegiate Association consists of C. O. Wells and W. F. McClelland of Amherst, and Gordon Hall of Trinity, these gentlemen having all arrangements in charge. The mile track at Hampden Park will have to be used, owing to the large expense that would be necessary to put the half-mile course in order. This lessens the interest in the long runs. The quarter-mile race promises to be one of the most exciting events of the day, as Shattuck of Amherst and Rowe of Dartmouth are old rivals, while Dadmun will be there to make them hustle.

Amherst is working her dark horses for all they are worth, and her nearness to the grounds is a great point in her favor. Still Dartmouth has a list of 38 entries, and while not saying much beforehand, is quite likely to come down with a big thud. Indications point to a successful athletic meet, and the only thing to be regretted is that Worcester is not the place for the sports. Never mind, boys; they'll be glad enough to come back next year.

THE SENIOR CLASS.

The Senior class may now be considered as fully prepared for Commencement. The lessons, which have maintained their original strength for so long, are now becoming easier.

Unlike '90, this year's Seniors have had their theses prepared in time. For this reason it was not necessary for any of them to remain up all night so as to hand in that all-important matter next morning to the instructor in charge. On the contrary, many of the men had their theses well started two or three months ago.

For another proof of the general activity and sacrificing zeal of this class, it is only necessary to state that, after many hours of severe manual labor, the interesting fact was discovered by one man that brick possesses remarkable cohesive force. This was undoubtedly evident to the professor, and two machinists, who also spent many hours in restoring the experimenting machine to its normal condition.

However, for a few of the men, work is not entirely concluded. There yet remains the class-book to be brought out successfully. Owing to a disappointment, not as much of the book has been finished as was thought might be. Also several new features contemplated, had to be dropped for lack of time. As the book now stands it resembles the Log of '88 in many ways. There are, of course, several slight differences, but the general scope is the same. A meeting was held at the residence of the editor-in-chief, and it was voted to name the book "The Aftermath of '91." It will be remembered that '90 had a class souvenir instead of the customary class-book. The labor of getting out this book and trying to
learn lessons at the same time cannot be underestimated, and the editors deserve credit for their exertions.

The officers of the class are: F. A. Bigelow, president; F. C. Hodgman, vice-president; J. F. Rogers, secretary; H. H. Tracy, treasurer. At a recent meeting an executive committee was elected to superintend everything relating to Commencement. This committee is composed of nine men, including the four officers already mentioned. In place of H. L. Dadmun, resigned, B. A. Gibson was elected Tree Ora­tor. The office of statistician was dropped and in its place E. A. Taylor was given the newly created office of Grind. The ode by W. H. Baird was accepted and will be set to music.

The entire class have had their photographs taken.

The trials and anxieties caused by divers things, bonfire and marks, for examples, are now well nigh allayed. So that there is nothing to prevent the Seniors from anticipating the grand finale with much satisfaction.

FROM AN ALUMNUS.

TO THE EDITOR OF THE WPI:—

I am sure I express the feelings of the Alumni in saying that the death of Mr. Moen has deprived the Institute of one of its truest friends, and has removed from the Trustees one whom the Alumni felt had their interests and desires at heart.

Is it then out of place to suggest to the Trustees, as a successor to Mr. Moen, the President of our Alumni, Mr. Charles G. Washburn?

In him we should feel that we had a representative who would give the same careful attention to our interests as shown by the friend we have lost.

ALUMNUS.

THE SHOP.

We learn from inquiry at the shop office, that the "company" is driven to its utmost capacity to meet the call for its products. Orders for elevators alone are on hand which will keep everyone busy for upwards of four months. A contract has just been made with the Wm. H. Low Estate Co., Westminster St., Providence, for four elevators, two passenger and two freight, the former with 42-foot runs, and the latter with 50-foot. A 55-ft. passenger and a 63-ft. freight elevator, besides two short lifts, are to be put in for L. A. Tilling­hast of the same city. A 40-ft. passenger elevator is ordered for the Buller Block, Lynn, and Mr. Walls is now in Leominster, drilling for a freight lift for the Smith Piano Co. Drill grinders still hold their own, among others, six more being ordered for England. The wood-room is filled with cars, nearly completed, and waiting for shipment. The amount of business transacted in the shop during the past year amounted to over $50,000. About 175 elevators were manufactured and shipped in that time.

THE FLAG.

Two men, at least, in the Institute, should receive the thanks of all for what they have done towards obtaining the flag for the tower. As a result of their work the movement has progressed with much success, and we may now be assured of really having the flag. The best of this is, that about every one in the Institute has had a share in its purchase. Probably nothing at all would have been accomplished had not these two men put their heads together and prepared subscription lists at once. Of course this decisive action looks very peculiar when contrasted with the "tired inactivity" characteristic of about everything and everybody here. It can only be explained by saying that a few men have survived that weary feeling and are not in the customary semi-comatose condition. To the honor of all in the Institute, let it be said that the subscription list was not out one day before it had more than sufficient pledged to purchase the banner. The Faculty also interested themselves, and amounts all the way from twenty-five cents to five dollars were contributed by them.

This is the way everything of benefit to us should be carried out. Perhaps in time we might recognize that if only a little help was given by everyone, a great deal could be accomplished. If we but remedy our half-hearted way of making a commencement, we will actually be surprised at what we can do.
THE SHOP TOOL ROOM.

Advantages of the Present System over the Slipshod Methods of the Past.

To the Editor of the W P I:—

A student of ten years ago coming again into the Washburn Shops will notice many changes and improvements over the shop of that time.

The larger number at work, both of students and journeymen, as well as the increased equipment of tools will challenge his attention, but it is doubtful if any one thing will meet his approbation more fully than the shop tool room, which has been organized about nine years.

The relative importance of this department in shop economies, in the turning out of satisfactory and salable work, the writer believes to be much underrated by many, including those who are more or less directly connected with its everyday workings, as well as those who have no interest in them.

Anyone who can look back to the time when there was no tool room, the tools being kept in drawers, cupboards, corners and shelves all about the shop, is apt to wonder how the boys were able to get anything done correctly and within a reasonable time. Much of their time was spent in hunting for tools, with more or less success (usually less), and finding them most likely where the last user had happened to leave them, which was seldom in their proper places. When giving you a job the foreman would tell you what tools to use but, being somewhat verdant, you were often at loss to know what was wanted by the name or what combination of tools were to be used in producing a certain result.

Now all is changed. There is a special place for the various tools which will be given you upon request, and when not in use are to be kept therein. If not returned, when their work is done, responsibility is immediately indicated by the check retained in its place. When a certain job is to be done, you have only to call for the particular tools for it and receive them without having either to hunt for them or to decide which ones are best for the purpose.

If you say this leaves no chance for the student to use his brains in selecting his tools and methods, I must beg to reply that your conclusion is wrong for two reasons: first, the tools given out will indicate a proper way of doing the work, as has been ascertained by long experience; and second, at this stage of his career the apprentice is hardly in a position to judge wisely as to a choice of methods when he scarcely knows how to properly use the tools given him. To have the right tools at the start is a great help to anyone, and to none more so than to an apprentice.

It would seem that this system of putting out and caring for the tools would relieve the foreman of an endless amount of detail work and bother from which he would be only too glad to be free.

Moreover, a great many questions are asked, when calling for tools, regarding their use and the inevitable whys and wherefores, which should perhaps be put to the foreman, but which it is so much easier to ask then, than to hunt up the foreman, who is perhaps out of sight for the moment. In this way the tool room gets to be a veritable bureau of general information, constantly on duty.

Whether or not this latter function is a proper one, I shall not attempt to discuss; that it is an actual condition is a fact, and also that it continues with an unending routine.

The conclusion to be drawn is that few shops in the country need a more elaborate and systematized tool room than would be found of advantage, as an educational influence in the work of instruction carried on by the Washburn Shops. It would seem that every effort should be made to have this department complete and up to the times, together with prompt, helpful and adequate service for carrying on its peculiar and indispensable work. There should be help enough so that one person might largely devote his time to necessary repairs and the making of new tools; which may be suggested by new processes or greater experience along certain lines.

Coming from the abstract to the concrete, an examination of the tool room will disclose a lack of certain kinds of tools and an abundance of other kinds. For instance, one is surprised to see but one set of taps of a size for so large a number of workmen. Also, that there are but few sizes of twist-drills; of which there is not a second
to give out should two workmen desire to use the same size at the same time. Further there are no 64th inch sizes which the smallest and most unambitious shops find unprofitable to be without.

On the other hand there is a very complete line of cutters for milling machine use, which are placed where they can be seen by the workman so that he may quickly choose the one best adapted to his work. These are a credit to the shop and to the system.

In closing I must mention the uniformly courteous and helpful conduct of the guardian of the tool room in answering to the many calls made upon him. Under his care the tool room has grown from a humble beginning to be one of the most important departments of the shop and has won indorsement even from those who originally could see no necessity for its establishment, and were lukewarm, if no worse, regarding the advisability of its continuance.

It is just to say that little could have been accomplished without the full approval and sympathy of the Superintendent, Mr. Higgins, who, by virtue of his position, could know the good results of its previous adoption in manufacturing shops, both in the city and elsewhere. Yet it could reach a high state of efficiency only under the care of a thorough believer in the value of the system, a thorough mechanic, and one in touch with his work.

Fortunately the right man was in the right place and the work has been faithfully carried through from the beginning by Mr. Chas. E. Staples, who has won the respect of all during his long service. Like an intricate piece of machinery in which all goes smoothly till some member drops out, so it is with the system of which the tool room is a part, the relative importance of which we sometimes forget.

RECENT JOURNEYS.

Charles G. Washburn, '75, has just arrived home from an extended trip in Europe. Mr. Washburn visited the Institute and the Engineer and the Wage-Earner, the Study of Iron and Steel, A Tribute to Alexander L. Holley.

PERSONALS.

Cook, '90, has taken a position as draughtsman in the shop.

Edward S. Frary, '90, was married, May 7, to Miss Carrie L. Paige, in Hardwick, Mass. The young couple will make their home at Waterbury, Vt.

Harry D. Yates '92 visited the Institute a few days ago. He says he may return to study at the opening of the Fall term.

Charles G. Washburn, '75, has just arrived home from an extended trip in Europe. Mr. Washburn visited Italy and Egypt, going up the Nile as far as the first cataract. He also journeyed through Greece and France.

Stephen B. Knowlton, formerly of '92, is in the draughting room of the Washburn and Moen Manufacturing Company.

W. L. Smith, '90, is with G. S. Morison, C. E., Chicago, Ill. E. H. Rockwell, of the same class, is also in the employ of this firm.

Theodore H. Wilmarth, '76, who has been connected with a mill in Saundersville since his graduation, is about to remove to Denver, Colorado, to accept the superintendent of a large woolen mill.

W. W. Estes '84 has accepted the position of instructor in the Mechanical department of the School of Design, Providence, R. I. This place has been, until now, held by W. S. Locke '74.

Guillot, formerly of '94, a native of Cuba, came to this country about two months ago to take up the study of me-
chanical engineering. It was his father's wish, not his own, that he should follow this pursuit, and this Institute was selected. He started in with the Apprentice Class, but did not work hard, and gave it up at the end of three days for a call from Wesleyan College. He was offered the professorship of Spanish at that college, which offer he accepted. This position is a very desirable one, and the fact of his being chosen to fill that chair speaks well of his scholarship.

Mr. Ball, who for the last two years has instructed the Preps in foundry practice, left last week to accept a position in the Arkansas Industrial College, Fayetteville, Arkansas. He will have charge of the foundry and pattern-making departments. We all wish him success in his new field, and hope to hear from him again.

**COLLEGE NOTES.**

Results of recent ball games: Amherst 14, Phillips Exeter 10; Amherst 8, Phillips Andover 1; Harvard 6, Dartmouth 1; Phillips Andover 13, Harvard '91 5; Brown 14, Dartmouth 7; Harvard 6, Brown 1; Harvard '94 11, Exeter 8; Harvard 13, Williams 0; Holy Cross 6, Williams 4.

Five hundred Columbia students recently made up a theatre party and went to Harrigan's Theatre, New York. While some were attempting a celebration, after the performance, two Freshmen were arrested in the act of overturning an ash barrel.

Among last year's graduates of Cornell the ladies carried off sixty per cent. of the honors, though they composed but ten per cent. of the graduating class.

Stagg, Yale '88, is said to have accepted an offer from Prof. Harper to become physical director of the new Chicago University.

There are twenty-nine candidates for the Yale Varsity nine, ten of whom are said to be trying for the position of pitcher.

Of the graduates of the M. I. T. seventy-seven per cent. are still following the professions from which they were graduated.

Bismarck claims that he was obliged to study thirteen hours a day when he was in college.

The authorities of the University of Heidelberg have prohibited foot-ball in any form.

We are told that the students at the College for the Blind, Worcester, Mass., play cricket splendidly. A bell is placed within the ball.—*Ex.*

It is said that the glass roof of the new Yale gymnasium is to be the largest of the kind in the country.

Of the sons of Harvard, two have been presidents and three vice-presidents of the United States.

Two hundred and seventy-one of the 365 colleges in the United States are denominational.

Mr. Fayerweather's bequest of $150,000 to Wesleyan will be devoted to a new gymnasium.

Of Yale's athletes, sixty-four per cent. have attained distinguished grades of scholarship.

The cup offered by Harvard and Yale graduates as a prize for track athletics has been accepted by the Athletic associations of the two universities. The cup will cost $500, and will be contested for annually till 1899, in which year it will be awarded to the college winning the majority of the nine annual contests.

The president of the University of South Dakota has resigned, at the request of the undergraduates.

The new gymnasium at Yale, which is well advanced in process of construction, will cost $200,000.

A recent ball game between the Technology Freshmen and Harvard Freshmen resulted in a tie.

Amherst students recently held a mock trial for the benefit of the college base-ball association. It was a breach of promise case, in which the plaintiff was a Smith college girl and the defendant an Amherst man. The plaintiff was awarded the sum of $1. The performance netted $225.

Brown University has recently been presented with an astronomical observatory.

The alumni of Wesleyan University have been asked to consider the question of changing the name of the college.

It is said that Yale is to establish an annex as soon as funds are provided.

There are eighty candidates for Princeton's Mott Haven team.
Colleges in the United States are increasing at the rate of fifteen a year.

The University of Pennsylvania has a new college pin, which consists of a small gold pennant, enamelled in red and blue, and bearing the inscription "U. of Pa."

The new Mt. Holyoke college paper has appeared under the name of The Postel.

A new bottle for the storing and transportation of hydrofluoric acid, recently invented by Prof. Edward Hart, Ph.D., of Lafayette College, has received the Scott prize. The bottle and stopper are composed of ceresine or animal wax.

Harriet Cook, professor of history at Cornell, is the first woman ever honored with the chair and equal pay with the men professors. She has taught in the University for twenty-three years.

Prof. Drummond's "Natural Law in the Spiritual World" is being used as a text book by the Seniors of Lafayette College.

The overseers of Harvard College have voted not to adopt Pres. Eliot's recommendation for a three years course.

In England the universities derive one-tenth of their income from students. In America, two-fifths.

The University of California has kept its football team in training all winter—the weather being so mild—and the team is now said to be the strongest ever seen in the West.

SOCiETY NOTES.

The meetings of the Historical Society have continued to be well attended, and much interest and discussion have followed the reading of papers by the members.

The history of England, from the Saxon Invasion to the reign of King John has been covered by the essays read, but it has been thought best to postpone the work in connection with Shakespeare, to which the former was only preliminary, until fall.

The last regular meeting of the society was held on Saturday evening, May 9, when all the members were invited to the home of Professor Smith.

Very interesting papers concerning the reign of Henry II. were read by Messrs. Miller, '92, Andrews, '93, and Strong, '93.

After the meeting, the company were very pleasantly entertained, and so the last gathering proved not the least in both profit and enjoyment.

A business meeting of the society was held May 14, and the following officers were elected:

President, E. L. Mundin, '92; vice-president, C. H. Andrews, '93; secretary and treasurer, A. H. Smith, '92; executive committee, Prof. Cutler, T. E. Brayton, '92; and the officers. Prof. Smith declined re-election as member of the executive committee.

The Y. M. C. A. seems, at present, to be in a most flourishing condition. A steady and increasing interest in the meetings has been manifested throughout the year, and there has been a corresponding increase in attendance.

A business meeting was held Thursday, May 7, and the following officers were elected for the coming year: President, Heard, '93; Vice-President, Bishop, '94; Recording Secretary, Brayton, '92; Corresponding Secretary, Goodrich, '93; Treasurer, L. C. Smith, '92.

Reports of the retiring committees were also read.

A meeting in the interest of the Association was held in the Institute Chapel Sunday afternoon, May 10, when addresses were made by Mr. S. K. Morse, of Harvard, and Mr. W. E. Chalmers, of Brown University. Both gentlemen made practical suggestions in regard to the best methods for carrying on religious work, and recommended that the Association send a delegation to the summer school at Northfield.

On account of the small number who have put in an appearance, no regular meetings have been held by the Tech Elect since those spoken of in our last issue.

This lack of interest is supposed to be largely due to Professor Kimball's absence. Let the Middlers live up to their privileges and not allow so helpful an institution to die out.

At the regular meeting of the Sanitary Club, Friday, May 8, Mr. H. E. Austin, W. P. L., '90, read a very interesting paper on "House Ventilation," presenting a general view of the needs and methods of
this important branch of sanitary science. Two lectures will be given as the closing work of the year, to which all members of the Institute are cordially invited. Both will be given in the Chemical Lecture-room at 4:45 P.M.

Friday, May 22, Dr. Edwin O. Jordan, of Clark University, will speak on "Bacteria," and, on the following Friday, Dr. Kinnicutt will speak upon the "Webster Chemical Electrolysis."

Several valuable reports from city engineers and boards of health have been recently received.

SCIENTIFIC NOTES.

The experts in the Washburn & Moen works have, after many experiments, succeeded in rendering steel so tenacious that they claim it will almost entirely supplant copper in wire making. This will greatly lessen the price of all wire for which copper was previously used.

M. Edouard Martin has invented a new conducting wire that is being manufactured on a large scale in France. The wire consists of a steel core sheathed with copper. This gives a saving of almost one-half over wire made entirely of copper. The other advantages are: its lightness, strength, and conductivity.

A new method of annealing small pieces of steel is to heat them as slowly as possible, and when at a red heat, to put them between two dry boards in a vise. The steel burns into the boards, which, coming together, form an air-tight charcoal bed. When cool, the steel is found to be thoroughly annealed.

The Great Russian Railroad through Siberia to St. Petersburg has just begun. The road will be 5,000 miles long and will cost $100,000,000.

Chemistry gives us some pretty hard names, but quinolineparamethylenbenzenylazoximeparacanaborylic acid is the worst.

TECHNICALITIES.

"Tucker, you're frowzy."

"Get out! Leave the room instantly!"

And the Child went.

"Make him trow de ball!"

If the young men who congregate in the basement during study hours will only drop "Little Annie Rooney" and the "Skirt Dance" from their repertoire, all will be forgiven. But if they persist in tampering with fate, something will break.

We sincerely trust that the kickers for a more scientific course in German, are thoroughly satisfied with the new books obtained for the Middlers.

The Civils are making remarkable progress in gearing. Fully three of them have succeeded in deciphering their notes upon that subject and as a result intend to drop engineering for the more lucrative profession of making gears.

Prof. "The Count de Paris is at present in this country."

1st Student. "How can that be? I heard he died two years ago."

2nd Student. "I think he is alive. I heard of him in New York a few days ago."

3rd Student. "Well, if he was in New York, he is dead by this time."

The professor, aghast at the parley between his charges, recovers his senses sufficiently to stop the debate and to deliver a lecture upon the evils of "back talk."

Prof. "What sort of a man was Robert Clive?"

Prep. "Oh, a sort of a hard case."

Smithonite is a very rare mineral; we submit that smithonite is about the only member of the great and glorious Smith family that is rare.

Division A, of the Middle class, now studying scientific German, is engaged in osteological discussions regarding the subsequent elimination of the intermaxillary bone. No wonder '92 can get through its class yell and live.

The announcement that Taylor '91 has been elected "Grind" might give rise to many significant remarks were that gentleman's reputation not fully known by all here.

But for the fortunate presence of Mr. Walls it is very doubtful whether any one, however brave, would have dared cross the field in the face of '92's redoubtable elevator contingent.

The latest excuse. A certain Junior engaged in sketching, accidentally got his
coat into some odoriferous muck-a-muck, necessitating his absence from the succeeding recitation. His friends kindly suggested the following excuse: "I cut because I got cut."

_Student:_ "We want badges for our graduating class. We have adopted as a design, a graduate surveying the Universe."

_Jeweler:_ "About how large would you like to have the figures?"

_Student:_ "I think the graduate should cover about three-fourths of the badge, and the Universe the remainder." — _Ex._

In the last issue of the paper, it was learned that the Civils were given work in mechanical drawing "to _learn_ them to use a pen." If the Civils who have been drawing all winter, in their practice time, need pen-work, how about the Mechanics? Why not give them a chance to draw, equal to that given the Civil?

Scientific German is the study. We find caterpillars are constructed on the same plan as Babcock and Wilcox boilers.

What is a fly wheel for anyway? Many think it is to regulate the flow of steam through the valves. What about forming a club to investigate the matter?

(If ye Civil were sensitive, this item would be "killed in the copy.")

One of the Juniors was very anxious to know if accommodation trains were to be run on the railroad, now being laid out by the Middlers, since there were stations at every hundred feet.

The Worcester School Board visited the Institute one week ago Friday, upon invitation of Dr. Fuller. The members were conducted through the hall, the shops, and the laboratories, the shops being especially examined, so that more information in regard to the proposed trades school might be learned.

Techs, on a rampage, generally make quite a noise. In one instance this noise was costly. It disturbed the slumber of a few who would be "benevolent friends of the Institute." The result is that these few put extra locks on their money chests, and vowed that not a penny would those howling nuisances receive. Fellow Techs, see what you have done. But for that you might, _perhaps_, see an end of—yes, of laboratory charges, exclusive of breakage.

Last winter there was considerable trouble, especially after a heavy rain, with the fires in the basement of Boynton Hall. In front of the boiler is a pit, the bottom of which is on a level with the fires. The water would rise high enough to pass through the crevices above the iron doors and put out the fires. To clear this part of the basement, pipes have been laid some three feet below the surface, on a gradual decline, and extending outside of the building a short distance, with its outlet on the side-hill. This drain disposes of all water and leaves that part of the cellar about the boiler still high and dry also.

_Instructor:_ "And then from five hundred pounds to one ton of metal is put in."

_Student_, innocently: "What! a ton in weight?"

It is said that certain Middlers are taking yeast to raise their personals in German.

Another excuse: I expected a severe cold this forenoon, and so did not come to school.

Can Kinni cutt?

Yes, Kinni can cutt.

Cutt Kinni cutt.

We hear that there are some kickers over the place of the Inter-collegiate meet.

That may be all right, but if there is anything in a name, the only place for a Spring field day is Springfield.

We’re sorry to have to speak of it, Mr. President, but won’t you please be careful hereafter about building rubbish fires in the spring “on the grounds of the Institute or elsewhere within ten rods of any building.” (See Gen. Statutes of Mass., Chap. 206, Sect. 12.)

The only men who can utilize the Lab. elevator are those with muscular fists. The operation is as follows: Jump up, grab the cable, and hang until the car comes up to your feet. Wipe the sweat, don’t worry, and repeat the operation 75 or 100 times, until you get within a foot of the top, then jump the gate and run. If there are any questions asked, swear by all the gods that D-d-e invited you up.

Lancaster Street is afflicted with a feminine soloist. A certain Junior affirms that at a recent afternoon quiz, he could distinctly hear her dulcet tones come floating up.
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