Vol. VIII. Thursday, June 9, 1892. No. 5.

CONTENTS.

Editorials ............................................... Page 49
Gifts .......................................................... Page 53
Final Cross-Country Run ............................... Page 53
Academy, 13; W. P. I., 2 .............................. Page 54
W. P. I., 6; Palmer, 5, and Wesleyan Academy, 6; W. P. I., 0 Page 55
W. P. I., 13; Brown Freshmen, 3 ........................ Page 56

Notice ....................................................... Page 56
Phi Gamma Delta Banquet ............................. Page 56
Senior Reception ......................................... Page 57
Reception to '92 ......................................... Page 57
Salisbury Sanitary Engineering Club ................ Page 58
Camera Club Election .................................. Page 58
Alumni ....................................................... Page 58
Technicalities ............................................ Page 59

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At last it has been shown that the Institute can play ball, but can it support a team? The game last Saturday was a fine one and in competition, not with a high school but with collegians and what is more it was won. The nine is showing up splendidly, the players and their Manager have worked hard and accomplished something, and a crowd of students should attend the remaining games and show their interest. The support which the team receives the rest of this year will decide whether or not we shall have one in 1893. There is now hardly any excuse for staying away when we have a winning nine and no lessons to get.

We are very glad indeed to acknowledge that the suggestions of the WPI in regard to the poor protection against fire and the flying of the flag, have been heeded. Fire-pails have been distributed through the Shop and the flag has been given to the breezes since Memorial Day. We have endeavored not to make unreasonable requests or to continually find fault, but to work in what seems to us the best interest of the school, and this recognition of our effort shows that the members of the Faculty are not always in opposition to the student as some would have us suppose. The need of the fire-pails was indisputable, and no one will deny that the red, white, and blue bunting on the flag-staff is an inspiring sight and adds wonderfully to the appearance of the hill on these beautiful June mornings.

Many thanks.

Since the above was written the flag has come down, but Boynton Hall is still under bare poles and it may be that the colors are to go up again after the strain of this week is over. It seems as if even now they might be at half-mast or, as someone has suggested, Union Jack down, in sign of distress. If it does not appear again before Commencement week we will take back all the good things we said about the matter in the last paragraph.

In a very short time work for the year will be completed and the list of students who are to graduate will be made up. Last year the names of two or three who had been in the Senior class, were missing from this list, and as a result there was a disgraceful complaint and uproar made by the rest. A few days will decide whether or not the present graduating class will follow the same tactics in case some from its number are not successful. Each student who is thoroughly interested in the welfare of the Institute and recognizes what is of advantage to himself will hope not. When men have failed to do the work required and have fallen below the minimum point in their studies, it is childish business to call in the element of pity and
argue that inasmuch as these men have remained here the whole of three years, the rules which have held all this time should be set one side, and they although unqualified, should be allowed to take their degree. It should be borne in mind that the more difficult it is to attain the standard set by the school, the more credit it is to those who do; and the more lax the conditions for obtaining a diploma, the less value is it to its possessor. Every student who strives to have the established standard removed out of sympathy for some poor unfortunate is really working against his own interests. The occurrences of the last half-year have shown discipline to be at enough of a discount, and the general tendency lately to sacrifice standard and everything else to money has been evident enough to warn students against themselves helping to depreciate their diplomas.

Some one has suggested to us the idea of all Tech men, present and past, having their headquarters at a particular place in Chicago during the progress of the Columbian Exposition. Members of the Middle Class, which graduates next year, have long had it in mind to make up a party of classmates and attend the Fair in a body, and it seems as if it could easily be arranged to broaden this plan and have it take in all who have ever been connected with the Institute. It would be extremely pleasant if this were done, for all summer long there would probably be some in attendance, and the visiting student or graduate would be almost certain to meet friends, for W. P. I. would surely be a password. We mention this now in order to call the attention of the alumni to it and to see if at the next meeting of the Association, they will not appoint a committee to inquire into the matter and fix upon some hotel for a rendezvous of the steel gray and crimson. If this were done, the undergraduates would at once fall in, and away in distant Chicago we could have a delightful commingling of student, graduate and Faculty from this technical school at the greatest technical exhibit the world has ever seen. Perhaps, too, it would have some value as a means of advertising the Institute, for individuals scattered through the city would not be noticed, while a considerable party in one place would attract attention. We most heartily urge the members of the Alumni Association to consider this matter and to take action upon it at the coming annual meeting, for if the plan is to be carried out it must be done by them and that too, this year.

According to the daily papers, at a meeting of the New England Intercollegiate Press Association held at Springfield the night of the sports, the W P I was elected Secretary and Treasurer for the ensuing year. We are extremely doubtful about the truth of this announcement for we received no previous notice of the meeting, and in consequence had no delegate present. Moreover, no official light upon the subject has come to us since that time. Just what excuse this organization has for existence, it would be difficult to say. One year ago the "convention" consisted of nothing more than a good banquet for the delegates present, the several Boards of Editors (the W P I unfortunately excepted) paying the expenses. There was not one particle of discussion or a paper read that would be of the least assistance to college editors. Even the toasts, as they showed sad evidence, were extemporaneous. The young ladies were very attractive and the young gentlemen very nice, but editors,—there were none present. It is said, however, that at this year's meeting there was more done in the line of business and that arrangements are to be made for an exhibit of New England col-
Besides the names of most of the leading American engineers and the professors of Engineering in the Polytechnic schools, there are in its list of members the names of distinguished engineers and educators abroad, such as Sir Frederick Bramwell, F.R.S., London, member of the Institute of Civil Engineers, Professor Joann Bauschinger, Technical High School, Munich, Germany; the late Sir John Goode, K.C.M.G., London, who presided at the banquet given the American Society in the Guild Hall, London, 1889; Professor Dwelshauvers-Dery, at University, Liege, Belgium; Joseph Hirsch, Ingénieur en Chef des Ponts et Chausses, Paris, France, and others. Some of these foreign members have contributed valuable papers which appear in the Society's Transactions. The Society carries on its work through its meetings at which papers presented by members are discussed, and through committees chosen to report on special subjects. All papers, discussions and reports of committees are published annually in the Transactions of the Society. There are two regular meetings each year. The autumn meeting is held in New York as a rule, or in some New England city. The spring meetings have been held in various cities with the view of giving members opportunity to visit, between the sessions for professional work, large engineering works and manufacturing plants.

Boston and Providence among New England cities have invited the Society to hold its meeting with them, and there is good reason to expect that Worcester will at some future time invite the Society here.

The last meeting was held in the Academy of Sciences in San Francisco, California, in which State quite a number of the members of the Society reside, among them Professor Gale, in charge of the Department of Mechanical Engineering in the Leland Stanford University at Palo Alto.

To those who attend a convention of the Society at so great a distance from its headquarters there is much to be seen and learned of general interest. Aside from the special work done in the meetings and in visiting engineering works. The former must occupy but little space in this article.

The first stop on the outward journey was at Chicago, and the principal objective point there was, of course, the World's Columbian Exposition grounds and buildings.

The party was received by officials in charge of various departments of the work and by means of steam cars was able to visit the various buildings. None are complete. All are temporary structures. All are built wholly or...
partly of wood and covered with a stucco plaster inside and out. Before the stucco is applied, the buildings somewhat resemble huge cob-houses, but after they are finished and tinted they look substantial and imposing. The Women’s building is nearest completion.

Machinery Hall has an iron arched roof in which are arches designed so as to be suitable for the roofs of four large railway passenger stations, after they have served their purpose in the Exposition building.

There is much to be done on both grounds and buildings to get them ready for occupancy. It would be a good exercise for a young engineer to consider how much of the work he would be willing personally to undertake in the time allotted for the completion of the whole. What has been achieved in the short time since the work was begun, gives assurance that it will be finished in season for the opening of the Fair.

Beyond Chicago the stop at Manitou Springs, a drive in the famous Garden of the Gods, the wild scenery of the Royal Gorge, the ride on the narrow gauge railway to the Marshall pass, 10,852 feet above the sea level, a stop at Glenwood Springs with a swim in the pool whose waters are warmed by the flow from a hot spring; a day in Salt Lake City with a visit to the great Mormon Temple, now nearly completed, and to the Mormon Tabernacle, and a trip to Salt Lake, with of course a due amount of study and discussion of the “Mormon question”; and farther on the journey, a descent in a few hours from the barrenness of the Sierra Nevada range into the fertile Sacramento Valley where orange trees were in bloom and other flowers abundant; a stop at Sacramento where the State House and the Crocker Art Gallery were visited; two days at the Hotel Del Monte, at Monterey, with its uniformly mild climate and wonderfully beautiful surroundings of natural and artificial scenery; a visit to the Leland Stanford University at Palo Alto; these were pleasant experiences, but were incidental to the main object of the engineers of the party. The same may be said of the visits to the Chinese quarter in San Francisco and the search for information in regard to the great question pressing itself upon the people of the Pacific coast, viz.: the Chinese question. There are in San Francisco from 25,000 to 35,000 Chinese massed in a comparatively few blocks. They are mostly men. The women, except the wives of a few merchants, are slaves. Their cash value is about $2,000 each. They are owned by such Chinamen as have saved money enough to pay the price. The Chinaman earns good wages, lives on rice, fish and tea at an expense of about ten cents per day, and as he is industrious he saves money.

Aside from these incidental matters, the features of the convention that are more strictly of professional interest and value may be grouped in two divisions, viz.: visits to engineering works, and meetings for the discussion of papers. Of the former, the first place visited was the extensive railroad shops at Sacramento. These shops are equipped for making locomotives and have at present a few in process. The principal business carried on is the manufacture of all supplies for the road except rails. From their location they are unable to make rails as cheaply as they can buy them. Mr. H. B. Small of the railroad shops gave the party every facility for inspecting the works, which are managed with much system.

One of the features of San Francisco is the system of cable railways. Many of the streets have a very steep grade (much like that of George Street in Worcester). The cable cars run over these long, steep hills with a uniform speed of about eight miles an hour. In descending a hill no brakes are used but the car is “gripped” firmly to the cable. The system thus utilizes the power that would otherwise be absorbed by brakes, and the force with which a car is held back on a down grade helps to propel another car that may be going up grade on the same line.

On Monday, May 15, the day of our arrival, escorts were provided to take the members of the party in groups to the different cable railway plants of San Francisco. Opportunity was here given for inspecting the engines used for driving the cables, and all the apparatus for handling, splicing and managing the steel wire cables and running this system of street cars, which seems particularly adapted to a city with many streets of extremely steep grades. On Tuesday there was an excursion by boat to the Mare Island Navy Yard, where Commodore John Irwin, U. S. N., and other naval officers received the party and gave them facilities for inspecting the dry dock and the shops in which are constructed the machinery for war vessels. The trip included a sail to the Golden Gate and through Raccoon Straits and San Pablo Bay.

By invitation of the Spring Valley Water Company the party on Wednesday visited the Crystal Spring Reservoir, the source of San Francisco’s water supply. The reservoir is some 30 miles from the city and is the property of a corporation. Aside from an opportunity to see the character of the surrounding country, the principal novelty was the reservoir dam, which is arched in form and is built of concrete, forming an immense monolith, the dimensions
of which I am unable to give. A collation in a grove of California live oaks and the appearance of the "American Eagle" gave us some acquaintance with California editors, lawyers, and engineers as after-dinner speakers.

On Thursday we were entertained by Adolph Sutro, Esq., a wealthy gentleman, who about ten years ago purchased a large tract of land which was then simply a waste of sand. The spot was so barren and unpromising that it came to be generally referred to as "Sutro's Folly." By the energy and ability, as well as the good taste of Mr. Sutro the place has been transformed into a beautiful park, filled with flowers, shade trees and statuary. Mr. Sutro's residence is there and the place is known as Sutro Heights. Mr. Sutro conducted the party through his grounds, which are entirely free to the public. He has in process of construction a large public bath, which is to be covered with a glass roof 400 feet long and 150 feet wide. This roof must be constructed to resist occasionally the pressure of a gale of wind with a velocity of 90 miles an hour. The power of the waves is utilized to fill the baths by excavating a large basin in the rock on the ocean bank, with the side facing the water a little above high tide. As the waves roll in at high tide they break over the wall and fill the basin, from which the water is allowed to flow to the baths. After a collation, generously provided by Mr. Sutro, the party was driven through the Golden Gate Park, the ladies returning to the hotel while the gentlemen went to the Union Iron Works. Some of the party had the good fortune to be conducted through the works by Mr. Hugo P. Frear, class of '83, W. P. I., who has a very responsible position (chief draughtsman) in the works, and whose ability and success as a designer in ship building and machinery connected with this line of work is widely known. Mr. F. A. Gardner, class of '90, W. P. I., is employed as draughtsman at the works. The shops are most thoroughly fitted up for the heaviest work in forging, steel casting and all the heavy, as well as the nicer and more delicate work of building large war vessels and finishing and furnishing their staterooms and officers' quarters. All the work is done regardless of first cost and on the principle that the best is the cheapest in the end. The hydraulic dry dock capable of lifting, by means of hydraulic plungers, a huge vessel 400 feet long and weighing many hundreds of tons is a good illustration of the magnitude of the operations carried on at this plant. This hydraulic lift was designed by Mr. Frear, and is one of the largest in the world.

G. I. ALDEN.

(Concluded in next issue.)

GIFTS.

The Civil Department Remembered.

Prof. White has for some time felt the need of additional apparatus and filed an application lately with Dr. Fuller for some articles which were absolutely necessary for the work of the department.

Mr. Jonathan Munyan of Worcester, President of the Goodyear Shoe Machinery Co. of Boston, hearing of the need, generously gave Dr. Fuller his check for one hundred and fifty dollars, and the Civils now rejoice in the possession of a fine Gurley 22" level valued at $115, a self-reading rod worth $16, and a clinometer and hand level at $18. When it is known that for a long time practising engineers have been using the self-reading rod in their field work while this is the first one that the Institute has ever possessed, it will be realized how opportune is the gift.

The Civil Department is still in need of some more pieces of apparatus. Another clinometer and a good pair of beam compasses are much desired and could be purchased for a small sum, while a solar attachment for a transit would be a most acceptable gift for a friend or alumnus to make. Nothing of this nature is owned by the Institute because not absolutely necessary for everyday field use, but it should be remembered that our graduates may desire to enter upon work which would require the use of such an instrument and as matters are now they would have to do so without even having seen a solar transit and with only the knowledge which Gillespie affords.

Dr. Fuller informs us that during the past year the different departments of the Institute have received additions to the permanent apparatus to the value in all of about five thousand dollars. Nearly all this amount has been contributed through the generosity of such friends as Mr. Munyan, some of which has previously been acknowledged in these columns. Further, Dr. Fuller says that during the coming year as much if not more along the same line will be needed. Especially does the Library need additions in order that the scope of its usefulness may be broadened. Hence it is hoped that friends of the Institute, whether of the Alumni or not, will take this matter into consideration and remember us with a generous spirit.

FINAL CROSS-COUNTRY RUN.

'93 Again Takes the Banner.

The third and last run of the season, this time to Tatnuck Post-Office and back through Highland and Pleasant streets, took place May
31. The only entry outside of '93 and '94, between whom the contest lay, was Wellington, '95, who was trying for the bronze medal. '93 entered Baker, Butterfield, Derby, Farwell, Gage, C. E. Goodrich, Starbuck, Strong and Vaill, while '94 was represented by Bickford, Chambers, Eastman, Fuller, Gallagher, Hale, Heald, Harris, Linnell, McFarland, E. P. Smith, and Whipple.

The day was hot for such a run, the temperature being above 80° and there was absolutely no breeze. The road was fairly free from dust, however, owing to recent rains. But in spite of the weather, referee Coombs set off the men in a bunch at 5:15. Baker, '93, soon took the lead and set the pace for the entire distance. The leaders kept close together, however, clear to the turn, it being a difficult matter to decide who was entitled to many of the places at this point. Some of the men took it pretty easy going up Tatnuck Hill. The order at Tatnuck was, Baker, Starbuck, Derby, Strong, '93, Wellington, '95, Farwell, '93, for the first six. Meanwhile the spectators of whom there were about 150, were amusing themselves by breaking down fences, hiding bicycles, and betting on the race. At the end of half an hour several 'cycle fiends announced the approach of the leaders, and soon '93's champion, Charlie Baker, crossed the line, having covered the 5½ miles in 31 minutes, 55 seconds, comparatively slow, but not bad considering the heat.

At least a minute after Baker, Derby, '93, crossed, and after him came Farwell, Strong, and Butterfield, '93. Wellington, '95, Eastman, Gallagher, '94, "Bill Nye" Goodrich, '93, Bickford, Fuller, Whipple, '94, Vaill, '93, Heald, McFarland, '94, Gage, '93, smiling profusely, and then Hale, Smith, and Linnell, '94. Only 19 men finished, as Harris had dropped out on account of a lame ankle, and Starbuck and Chambers were overcame by heat and exhaustion just before reaching Elm Park. They were taken in charge by a '93 man, who seems always to be on hand when needed, and when the judges at Tatnuck came along with a wagon, the invalids were carried to the house of Mr Higgins, where Dr. Stevens attended them.

The score for this run was:—'93, 115 points; '94, 79 points; '95, 13 points.

The score for the three runs is:—'93, 270 points; '94, 230 points; '95, 41 points; '92, 20 points.

It is fair to say that '94 lost the services of two or three men in this run who have done well before, but it is also fair to say that '93 missed in the whole three runs, Dyer, Stone, and Andrews, all of whom did good work last year.

The medals go as follows:—1st, gold, to Baker, '93, 57 points; 2nd, silver, to Butterfield, '93, 49 points; 3rd, bronze, to Wellington, '95, 44 points. The struggle for the bronze medal was very close between Wellington and Farwell, the former winning by one point.

We are asked to say that the '94 men who ran this last time are thoroughly disgusted with the lack of patriotism shown by their classmates. Not a '94 man was at the scratch to help home the runners, nor to rub down. It does seem rather discouraging for the men who are willing to run, not to receive proper care on their return, and classmates should correct this.

Altogether these three runs have formed a most interesting branch of new sports, but we would suggest that the last of May is apt to be pretty warm weather for such exertion. Next year the runs ought either to be held in the fall or some time earlier than they were this year. The middle of March is plenty late for the first, as most men would rather run on a cold day than a hot one.

The officers of this last run were, Z. W. Coombs, referee; G. F. Freed, '92, W. J. Denny, '93, judges at finish, and timers; A. C. Higgins and H. A. Coombs, '93, judges at turn.

ACADEMY, 13; W. P. 1., 2.

On Saturday, May 28th, the Tech and Academy teams played an uninteresting game at the Oval before a crowd which numbered about three hundred, most of which was from the Academy. The Tech team is certainly not having the support from the students that it should. It has long been an acknowledged fact that the students turn out better to a game, whether base-ball or foot-ball, when the Academy is the opposing team, than at any other game of the season, yet there could not have been present more than fifty students at most. To be sure the team lost the game, yet such lack of support from the students is not much encouragement to play winning ball.

The loss of the game may be attributed to the battery work of Gregory and Gordon, and the costly errors made by the Tech team.

The throwing of Gordon was especially good, he being able to catch every man but one when ten feet off second. After the first two or three had thus been caught it seemed very foolish for our players to try and steal second, especially with no one out. Each of our pitchers made a balk, and Allen made two wild pitches which were especially costly. Warren took Dillon's place at second in the fifth and played very well, getting two hits in as many times at bat.
THE WPI.

W. P. I., 6; PALMER, 5. WESLEYAN ACADEMY, 6; W. P. I., 0.

On Memorial Day the Tech team played two games, one at Palmer, and the other against the Wesleyan Academy at Wilbraham. The team won in the morning but lost the afternoon game. The shaking up of the in-field appears to be beneficial, Warren in place of Culley, and F. H. Stone in place of Dillon are both improvements, the latter accepting thirteen chances without an error. Second base seems to be his home position. Palmer and Wilbraham were carried away by Fred Stone's pitching and scientific hitting. Nineteen innings, and only thirteen hits and one base on balls is a record of which to be proud. Stone ought to be a crack man next season.

Lincoln seems to do finely with all fly balls, not having made an error in the four games he has played out-field. He is also hitting with good effect.

Chamberlin caught two good games and hit well.

Great credit should be given the team for its steady team-work in the ninth and tenth innings of the Palmer game.

Sedwick is the best player seen by the Tech team this season.

Pulver, the Wesleyan pitcher, has made a great record this season having downed eleven teams without a defeat. Both of these players are talking of entering the Tech next September. The whole Wesleyan in-field was like a stone wall through which nothing could penetrate.

The umpiring of the afternoon game was a treat after the partial exhibition of the morning.

The morning game was called at 10.30.

The Score:

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<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>

Totals, 20 5 6 9 2 26 19 7

*Seven men declared out, hit by foul.

Innings, 1 2 3 4 5 6 7 8 9 10

Worcester Techs, 0 0 1 0 0 0 0 0 4 1 | 6

Palmer, 0 1 0 2 0 0 0 0 0 5


Notes:

Wesleyan fairly outdid herself in hospitality to the Tech team. A bus took them from the depot to the grounds and return, and a fine supper with all the Wesleyan boys and young ladies was enjoyed, after the chapel exercises which of course all Techs attended.

At chapel honorable mention was made of the gentlemanly bearing of the visitors and the home team was congratulated in public by the President of the Faculty for excellent playing.
The Faculty at Wesleyan feels that nothing advertises a college or academy among young men as much as a good base-ball, foot-ball, or athletic team.

The record of the team to date is, won 5, lost 3.

W. P. I., 10; High School 4.
W. P. I., 22; Melrose High 12.
W. P. I., 10; Picked Nine 9.
W. P. I., 2; Worcester Acad'ny 13.
W. P. I., 6; Palmers (10 in.) 5.
W. P. I., 0; Wesleyan Academy 6.
W. P. I., 13; Brown Freshmen 3.

Of the men who had played in three games up to Saturday, Allen leads the batting with an average of .666, Gordon next with .450, and Warren .444. Then come Perkins .346, Chamberlin .312, and Culley .294. These averages include a sacrifice hit as one-half.


The Tech base-ball team met the Brown Freshmen at Agricultural Park at 3 o'clock last Saturday afternoon and defeated them by a score of 13 to 3. The Browns were unable to score until the seventh inning owing principally to the fine battery work of Fred Stone and "Midge" Gallagher, well supported by the entire team.

The Techs had no trouble in hitting Williams or Heathman. They scored four runs in the second inning and added five more in the fifth, two in the seventh and two in the eighth, making a total of 13.

Olney's hit with the bases full in the seventh brought in two runs for the Browns and they added another on a passed ball. Stone's pitching was very effective, although his arm was lame from the games he pitched Memorial Day. The poor condition of the grounds made sharp playing difficult.

The small attendance was not very gratifying to the Manager, to say the least.

It does seem as if more interest should be taken in the team, and when a game is played at home the attendance should be large enough to guarantee a yell occasionally.

The Score:—

<table>
<thead>
<tr>
<th>A.B.</th>
<th>R.</th>
<th>H.</th>
<th>T.B.</th>
<th>S.H.</th>
<th>P.O.</th>
<th>A.</th>
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<tr>
<td>Gordon, 3b.</td>
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<td>8</td>
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<td>2</td>
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<td>13</td>
<td>11</td>
<td>12</td>
<td>2</td>
<td>24</td>
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BROWN '95.

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<th>A.</th>
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<td>1</td>
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<td>0</td>
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<tr>
<td>Totals,</td>
<td>30</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>1</td>
<td>11</td>
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</table>

"Game stopped with one out to allow Browns to catch train.

Innings, 1 2 3 4 5 6 7 8

Brown, 0 4 0 0 5 0 2 18


NOTICES.

June 9, Thursday Afternoon, Oval, Senior Ball Game. 6.30 P. M., Strawberry Festival, First Baptist Church.

9, 10, Meet of Worcester Driving Association at Agricultural Park.

9, 10, 11, Germaine Opera Company in "Amorita" at Worcester Theatre.

9, 10, 11, "Hidden Hand" at Lothrop's.

11, Saturday, 3 P. M., Ball Game at Worcester

Oval, Techs vs. Amherst Aggies.

18, Saturday, 3 P. M., Worcester Oval, Ball Game, Techs vs. W. A. C.

18, Saturday, 2 and 8 P. M., Forepaugh's Circus at Agricultural Park.

21, Tuesday, Class Day. Tree exercises, 2 P. M., grove near Magnetic Laboratory.


23, Thursday, 9 A. M., Reading of Theses in Chapel.

8 P. M., Graduation Exercises at Association Hall. Address by Adolphus Greely. Presentation of Diplomas.

PHI GAMMA DELTA.

Holds Its First Annual Supper.

On Friday eve, May 27th, Pi Iota Chapter of the fraternity of the Phi Gamma Delta held its first Annual Banquet in the cozy little supper-room of the new Commonwealth Hotel on Front street.

The committee of arrangements consisted of Messrs. Southgate and Howe, and great credit is due them for the business-like manner in which the affair was managed. At 8.30 the members met in one of the reception rooms adjacent to the banquet hall, and at 9.00, twenty men
marched out and took the chairs allotted them at the table. Dr. George D. Moore from the Institute and Archibald McCullagh, Jr., from Beta Chapter of the University of Pennsylvania were the guests of the evening.

After a very enjoyable dinner, at 10:45, Mr. Southgate introduced Albert E. Culley, '92 as toastmaster, who proceeded at once to call for responses to the following toasts:

The Institute, Dr. George D. Moore, Pi Iota, Fred A. Morse, Beta, A. McCullagh Jr., Our Prospects, Hugh M. Southgate, The Ladies, Curtis A. Tucker.

The speech of the evening was that of Dr. Moore, who related several funny incidents about fraternal life at Harvard, and in a very kind manner gave some good advice relative to fraternity life in general.

Letters of regret were read from Dr. Fuller, Dr. Kinneicutt and Prof. Conant, besides those from sister chapters in the different colleges, these latter being in the midst of examinations found it impossible to send representatives.

At 1.30 after singing Auld Lang Syne and giving the Tech cheer, a most enjoyable evening came to a close.

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THE SENIOR RECEPTION.

Extensive Preparations. An Enjoyable Time Expected.

As is customary the members of '92 began early to make preparations for Commencement week, and it is their ambition to make the exit of '92 the most successful and enjoyable occasion in the history of the Institute. Although each feature of the week is expected to be above the average, yet it is the Senior Reception which is intended to eclipse all previous affairs. This has usually been held on the afternoon of the Class Day exercises and has not been a very elaborate thing although it is the only good opportunity for the Seniors to meet socially with their lady friends and is necessarily the closing social event of their college life.

Hence '92 resolved to outdo itself this year and a committee consisting of Messrs. C. A. Tucker, F. A. Morse, A. E. Culley, G. D. Ball, and C. A. Needham has been busy making all the necessary arrangements.

Some seven hundred invitations will soon be sent out and over five hundred are expected to accept and be present. These invitations state that the reception will be held Tuesday, June 21st, from 8 to 12 P.M., at the Salisbury Laboratories. Bird's Orchestra of Marlborough, consisting of nine pieces, will furnish music for dancing in the Mechanical Model Room and in the corridors.

Zahonyi has the matter of refreshments in hand and frozen puddings, ice-cream, sherbet, cake and lemonade, the Seniors say, will be served in large dishes.

The Laboratories will be decorated with palms and potted plants, and lighted with gas and electricity, while the roads leading to the building and the grounds of the Institute will be illuminated with Japanese lanterns. The crowning feature of all, if arrangements can be perfected as is probable, will be the turning of the immense flat roof of the Laboratories into a vast reception room. Tables and seats will be placed about the roof and Japanese lanterns will furnish the light. A more pleasant spot could not be found for such a purpose. If the weather is such as June generally brings it will be a delight to promenade in the summer air far above the warmth and dust with only the blue heavens for a canopy and with the pleasant view of the lights of the city near at hand. "The committee has not yet planned all the minor details, but '92 bids fair to make its final reception one which will be looked back upon with much pleasure.

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RECEPTION TO '92.

The President of the Trustees Entertains.

In response to the invitation of Judge P. Emory Aldrich, the Senior Class attended a reception at his house, No. 64 Elm St., on the evening of Friday, June 3d.

The affair was entirely informal, and the evening was passed in a pleasant social manner, several young ladies assisting in the entertainment of the Seniors. About sixty were present, among whom were President Fuller and wife who introduced the members of the class to Judge Aldrich. In the course of the conversation the Judge complimented Doctor Fuller upon the fine intelligent appearance of the students in general and remarked that in his opinion this class was the brightest looking set of young men that had ever graduated from the W. P. I.

With a compliment of such a nature from such a man as the President of the Trustees it is not to be wondered at that the step of the Seniors was more elastic than usual and their usually solemn faces more cheerful than ever before on the morning of June 4th, even though the dreaded examination on Mechanics was awaiting them. Let us hope that '92 will continue to merit such an opinion.
SALISBURY SANITARY ENGINEERING CLUB.

The semi-annual business meeting and election of the Club was held in the Salisbury Laboratories at noon, June 3, and the following officers were unanimously chosen: President, Charles W. Dyer, '93; Secretary and Treasurer, Clarence W. Eastman, '94; Executive Committee, the President ex-officio, Mr. George W. Booth, S. B., and Herbert P. Linnell, '94.

No meetings of the club will be held until November 1st when it is expected that Dr. Woodward of Worcester will read a paper. The work for the ensuing year has not been decided upon but complete arrangements will probably be made early next year.

CAMERA CLUB ELECTION.

An enthusiastic meeting of six members of the Camera Club was held in the Library last Monday noon. Pres. E. W. Vaill struck a graceful attitude, covering at least half of one table and the other members ornamented window-sills and other furniture. There was no contest over any office, not even that of treasurer. The new officers are: Pres., Higgins, '93; vice-pres., Kent, '93; see., MacKay, '93; treas., Coombs, '93; keeper, Keith, '94 (re-elected). After Pres. Vaill had urged the members to make a great number of lantern slides this summer, with a view to giving an exhibit next fall, the meeting adjourned.

ALUMNI NOTES.

The Worcester Polytechnic Alumni Association of Cleveland, Ohio, will hold a social reunion and dinner at the Hollenden Hotel in that city, Monday evening, June 20th. All graduates who can stop over on their way east, or who will be unable to attend the reunion at Worcester are cordially invited to attend. Mr. Jang. Lansing, '87, 1253 Curtis Avenue, is Secretary.

'91. Stearns, '91, was in the city a few days ago and made a flying visit to the Institute.

'88. Charles L. Griffin, '88, whose address was incorrectly given in the last catalogue, is head draughtsman for the Shaw Electric Co., at Muskegon, Michigan, and not at Milwaukee, Wisconsin.

'74. Mr. Clarence A. Chandler was, on May 16th, appointed Assistant Superintendent of the Carver Cotton Gin Co., manufacturers of Cotton Gins, Cotton Seed Linters, Shoe Machinery, &c., a corporation employing some 200 men at its works in East Bridgewater, Mass.

'90. George H. Nutt will spend a large part of his summer vacation in France in the interests of the Mechanic Arts Department of the New York College for the Training of Teachers. He goes to study the French system of manual training and to purchase manual training literature, models, and casts. He also contemplates a short trip into Germany.

'85. Louis Warren Southgate, '85, was married on the evening of June 1st to Miss Clara L. Brigham, daughter of ex-alderman Lucius L. Brigham of Worcester, at the residence of the bride, No. 6 Norwood Street. Mr. Caustin Browne of Boston was best man and Messrs. Edward Wheeler of Boston, Harry B. Prindle, '85, of Boston, and Philip W. Southgate, '89, of Washington, D. C., acted as ushers. In rooms set apart for the purpose there was a large display of presents. They included many costly pieces of bric-a-brac, silver ware and fancy articles for household use. After the ceremony, which took place at 6.00 o'clock, Mr. and Mrs. Southgate held a reception until 9.00. Among those present were many friends of the bride and groom from Boston and elsewhere besides a large attendance of local acquaintances; Horace W. Wyman, '82, and I. L. Rheaton, '89, being noticed as past Tech men. Mr. Southgate after leaving the W. P. I., was graduated from the school for patent lawyers at Washington, and has for several years been a member of the firm of Browne, Southgate & Moulton, patent lawyers, which has offices in Boston, Worcester and Lynn. He has charge of the Worcester office in the Burnside building. Mr. and Mrs. Southgate will spend their honeymoon in Boston, residing on their return at No. 17 Shepard Street in Worcester.

'91. Harrison P. Eddy, of the class of '91, was quietly married at high noon June 1st to Miss Minnie Jones, at the home of the bride's parents, No. 77 Chatham St., Worcester. The wedding was private, being attended only by the relatives and intimate friends of the bride and groom. The ushers were Messrs. Ernest Eddy, Fred A. Bigelow, '91, Fred A. Morse, '92, and Russell Briggs. The house was prettily decorated with flowers and the presents were numerous, including sets and single articles in solid silver, china and the like. A wedding breakfast was served after the ceremony and the newly married couple left on the 1.20 train for Monmouth Beach, where they will remain a short time. On their return to Worcester they will reside at No. 2 Reed St., Quinsigamond. While the couple were preparing for this journey, their friends hit upon the idea of decorating the hack. One of the young ladies offered the white ribbon trimmings of her dress
and with these the whip and harnesses were accordingly tied, while an old shoe fastened to the end of the pole and another to the springs completed the equipment. When Mr. and Mrs. Eddy came down stairs, their simple hack had been transformed into a gay hymeneal chariot. As the time was short they had to drive off immediately amid the laughter and good wishes of those present. Since his graduation Mr. Eddy has been connected with the sewage purification works at Quinsigamond, and at present is the superintendent.

### TECHNICALITIES

Examination week.—Examination weak!

It is rumored that next Monday the Ward 1 clothes-lines will have an unusual assortment of cuffs.

Floidin took an elegant group picture of the Juniors, a few days ago on the knoll north of the Joe Bill road.

Will some one kindly inform Ch-n-y, '92, that the grass on the Y. W. C. A. tennis grounds needs cutting again?

Owing to unavoidable circumstances, our series upon post-graduate schools will not be completed until next fall.

It is rumored that several of the Brown team contracted hay fever while playing on the Agricultural ball grounds last Saturday.

S- the scored a base hit on the bulldog at the game Saturday. It might have been a safe hit if the owner had not been around.

One day last week a Prep was seen coming out of the shop with a chip hanging on his arm. Such occurrences should be guarded against in the future.

Towne, of Williams, who vaulted 10' 9" at Springfield, the 25th, only cleared 9' 9" at the Mott Haven games a few days later, being tied for third place.

In the account of the Springfield games, Derby’s vault was given as 10' 3", dropping out at 10' 6". The heights should have been, 10' and 10' 3" respectively.

The Seniors are to have their Class-day exercises Tuesday instead of Wednesday, because of the scarcity of bands the latter day owing to the Odd Fellows’ parade.

The German said, "where he was received with great testimonies of honor and joy," but a Middler read, "where he was received with tidings of comfort and joy!!"

Students are reminded that next fall one new editor from each class is to be elected and copy
in competition will be received at any time or assignments given upon request.

By some mistake, one of '92's theses was omitted from the list in our last number. H. N. Paige's subject is "The Modulus of Elasticity in a Spiral Spring" and his drawing is of a head-stock to a Washburn lathe.

We are afraid that K-w-d has sometimes been drawn from his studies by the fascinating game of poker. He informed a member of the Faculty the other day that "when your cards go up 1, 2, 3, 4, they called it a sequence."

This is the week when Lincoln Sq. druggists do a good business in condition powders; when crow-quill pens are at a premium; when the livery trade is more driving than usual; and when it takes three or four watches to keep track of the time in chapel.

Thursday afternoon, June 9th, on the Oval, the Senior Class will play its great annual ball game. The class will be divided into two parts, and the losing half will treat the whole class. Messrs. Tucker, Southgate and Bartlett have the matter in charge.

The orator for the evening of Commencement will be Gen. A. W. Greely. His subject has not yet been fully decided upon but will probably be upon the benefit which a scientific student obtains from a study of nature. Gen. Greely is the chief of the Signal Service Department of the U. S.

We recently received the records made at a high school field-day, in a town not very far distant, in which the time for the 100 yards dash was recorded as 10 seconds. Our suspicions were aroused but on investigation it was found that the time was taken on the town clock. This satisfied our doubts as to its correctness.

In a few days the poor Mechanic will draw on his overall "for keeps" and will settle down to work, literally against time. Some men have this year's time all completed and are even ahead on next year, while others have not yet got down to the required 168. Among the principal unfortunate are Ramsdell with 286½ hours to while away; Cleveland, 208; Howe, 209; and Coghill, 195½, from the Middlers; and Keith, 287½; Sawyer, 196½; Cobb, 194½, and Clark, 188½, from the Juniors.

When a party of Middlers was visiting the Quinsigamond wire mills a short time ago, H. Sinclair noticed a large discarded roller, slightly damaged on one end. With the Tennis Association in mind, he wrote on his return, asking the price. In reply he was informed that the Company was very glad to make a present of it to the Association, and it is now behind the Shops waiting to be mounted. It is about 3 ft. long and 2 ft. in diameter, of stone, and just the thing with which to roll the courts. It will be arranged for one horse and is quite a valuable acquisition.

Subjects suggested for the W. M. E.—


"Fine work on taps and other tools," by A. C. C-m-n-s, '93.

"The advantages of a Soap Bath for Blue Prints," by A. F. N-w-t-n, '93.

"How to do good woodwork quickly," by R-g-rs, and Th-m-p-n, '93.


"How to run an Elevator," by Prof. G. D. Moore.

The Middler who, as we were informed a few weeks ago, makes nightly expeditions behind the barn and performs certain gymnastics, is now regularly accompanied by a Prep. This member from '95 recently went home to spend Sunday. When he took the train back Monday morning he got on the last platform and started to walk through the cars to find a seat. While going up the aisle he saw a gentleman whom he evidently knew very well, for, stepping up behind the man he seized his beard with both hands and gave him a shaking such as boys and ash sieves generally get. Before a very great while the man turned around and proved to be not the acquaintance expected, but the father of a certain young lady whom the Prep had met not under the most favorable circumstances the evening before. What followed is better imagined than told. A fact.

We have had our attention called to the fact that several times lately the editors of the Daily Spy of this city have refused to publish notices of coming affairs of much interest to the students, and have also published other notices which they promised to omit. Scarcely any attention has ever been paid to the W P I., while the three other dailies have been extremely courteous about remembering us in their columns. This bit of perversity of course, has not disturbed us, but now that the columns of this enterprising paper are evidently closed to all little important notices of the students, and as we cannot expect favors from its publishers, we would suggest that no one trouble himself in the least about furnishing information to its reporters in the future. If students must have a notice printed of some coming ball-game, they must be prepared to pay advertising rates.
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Fig 1

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Fig 2

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