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Students of Worcester Technical Institute

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OCULISTS' FORMULÆ FILLED IN OUR OWN WORKSHOP.
Here's a hearty welcome to the class of '99. For several months we have heard of you, and now we take great pleasure in welcoming you into our midst.

The class is to be congratulated on the favorable circumstances under which it has begun its work here. It has advantages for a broader life not possessed by any class gone before. New buildings, more apparatus, and a larger number of members, certainly should be productive of much good. Few classes have had such a bright outlook, but each has made the best of its opportunities. So we hope that the class of '99, not only will make the best of her material, but also that this best will be of such a nature that its existence at the Institute will be long remembered.

We look to the present Freshman class to help raise our standard in studies, athletics, and, indeed, in everything, which tends to keep the star of Worcester Tech high in the ascendant.

The football practice was not begun as early this year as in years gone by, but this fact should not discourage us. We have a coach whose abilities as a football player are too well known to need comment here. We have an impartial captain, who will do his best for the welfare of the team. While the material is reported somewhat light, yet, if that should be our only fault we would have no cause for complaint. Constant practice and co-operative work will do wonders for any team.
The men must make the best of the little time given them for practice. All who can play should be on the field promptly on the appointed time for practice, and, while there, try to do their best. Let each one, as he reads the daily bulletin board, consider the call to practice a personal invitation, and then, if he obeys the call, we feel sure in saying, that there will never be a time when the students will be ashamed of their 'Varsity team of '95.

Because a man feels that he has no chance of gaining a position on the team, is no reason for him not to try for the second eleven. Let such a man think for a moment what the 'Varsity will become, unless there is a good second eleven for it to fight against. There must be a good and constant second team or we cannot hope for a successful 'Varsity.

We hope for a series of contests such as we have never seen before. This is perhaps a little too much to hope for, but, nevertheless we feel that our expectations will not be disappointed.

The first game of the season is now of the past, and, as was to be expected, much can be learned from the play. Considering the fact that the team was composed largely of raw material, and that but little practice was possible, we are of the opinion that the men deserve much credit for their work.

True it is that some of the faults are very glaring, and should not have happened, but we trust that they will not occur again. One of the faults which seem to us as most to be regretted, and easily remedied, was the lack of good kicking. The centre, or some one, should have a thorough course of coaching in the art of goal kicking. Let some goal posts be erected on the field and each day have a portion of the time devoted to goal kicking. This would certainly be beneficial and would tend to correct this fault. With the ball squarely between the posts, and no wind at all, there was no excuse for the failure which followed the kick last Saturday. We do not blame the centre so much, under the circumstances, for not kicking his goal, but we do believe that he should be given more practice in this art.

It was also very evident that the quarter was somewhat weak and fumbled his ball too much. As he was a new man at this position he did, however, fairly well.

The centre played an exceptionally good game and deserve much credit for the showing they made.

It would be of decided advantage to the team if some of the students would offer to rub the men down, both after a regular game and every evening after practice. We cannot afford to pay men to do this, and as it is a necessity, we hope several of the students will volunteer for this work.

As we said at the outset, the men played a good game; went into it with a will, and a determination to do their best. They certainly ought to receive much praise and we take this opportunity for thanking them for their good work.

It is with pleasure that we return to the Institute and see the many changes brought about since we left it last June. Of these changes a full account is given in another column, but we cannot refrain from making a few remarks here.

Surely all that is new to us now, is but one of the many signs of the era of prosperity which Tech is just commencing. With these changes, and the Alumni Hall not far in the future, surely the Institute is greatly favored. All these things cannot help but instil pride in the heart of every student for the institution which gives him his education. This pride will promote a better college spirit, and will tend to bring the alumni and undergraduates closer to-
An old friend is with us again and we are glad to see that his long absence has better qualified him to teach the languages and to help along athletics. We feel sure that we voice the sentiments of his many acquaintances among the students when we say that they extend a hearty welcome to their friend and professor, Zelotes W. Coombs.

The sympathy of the whole body of students goes out to Dr. Kimball, who lost his mother on August 31st. The Doctor had been unable to leave his mother all summer, and after her death was compelled to take a much needed rest for a few weeks. We are glad to state that his vacation has been of much benefit to him and that he now feels ready to begin the regular work of the year.

GERMAN UNIVERSITY LIFE.

An Interview with Prof. Coombs.

Professor Coombs, who recently returned from Europe after a year's leave of absence, gives a most interesting account of his experience.

Leaving New York in the middle of July, 1894, by the Red Star line, he arrived at Antwerp after a pleasant ten days' voyage. Three days were spent in Antwerp visiting the exposition, its famous cathedral and other objects of interest; then he went by way of Brussels and Cologne to Hanover. This is a pleasant place of about one hundred and fifty thousand inhabitants and contains a strong garrison. Going directly into a German family and speaking only German, the two months spent there were most profitable, not only from the fact that he was thus introduced to German customs and manners of life, but, also, because the language is spoken here with the greatest purity. While at Hanover he met Mr. E. W. Lazell, '90, and Mr. C. B. Allen, '95, who is studying at Göttingen University.

He arrived in Berlin about October first, and immediately entered the University and became acquainted with German red tape. Matriculation at a university is a very solemn occasion. Entering a room, in which are a half-dozen or more university officials seated at a long table, the foreign student is obliged to deposit his passport and American college diploma with the secretary, the first man at the table. In return, he receives several documents, then passes on to the next two who sign and countersign them, then to the registrar, the next man takes his four dollars and a half, the matriculation fee; he receives his matriculation card from the next, and finally the rector shakes hands with him and extends his congratulations.

This matriculation card is of very great importance, its especial purpose being, as it states on the back, "To prevent too long detention at the hands of the police." The student is a privileged character in Germany, and the presentation of this card promises reduced rates at all places of amusement and guarantees admission to museums, collections, manufacturing establishments, and other places of note and interest.

Berlin University, which has four thousand students, from all parts of the world, two hundred of whom are Americans, bears the same relation to the smaller German universities as Harvard and Yale do to the smaller American colleges. The method of instruction in German universities is entirely different from that which obtains in ours. The matter is given almost entirely in lectures, though in the study of foreign languages recitations are held in which all take part and there are also seminars in which only a few join. Thus a great deal is left to the individual student. As a rule the lectures are very dry, and the professors, though bright, cheerful men, do nothing to enliven them, reading them in a monotonous voice and often indistinctly. Fees for lecture courses vary from two and one-half to five dollars per term; the winter term begins Oct. 15th and lasts until March 15th, while the opening term is shorter, lasting from April 15th until August 1st.

The professors rarely lecture more than six or eight hours per week and hence have ample time for investigation, in whatever field they have become famous. In the smaller universities the lecture courses do not open until a couple of weeks after they are advertised to commence and close a week or ten days before they should, from the fact that the lecturers wish to devote their time to original work. At Berlin they are much more prompt, as the Minister of Education resides there. The only record of attendance is a book which the student presents to the professor within the first six weeks of the term, and in which he signs his name and the date, and again within the last two weeks.

German students are pleasant fellows to meet, but have not the same knowledge of
affairs that the Americans have, though they are better read in their particular departments. There are so many of them, that they are forced to specialize, and being studious by nature, and hard workers, naturally become proficient. Though the majority attend closely to business, our college “sport” has his duplicate there in those who devote their time to fighting duels and attending social meetings, the principal feature of which is the drinking of beer. Although the law forbids duelling, there are societies organized solely for this purpose; the members challenge each other merely as a matter of fun, without any personal feeling, and as they always aim for the head, frightfully lacerated faces are not uncommon.

The city of Berlin is a very interesting place; it is the greatest music centre in the world, has one grand opera house, about twenty theatres, and teems with museums, art galleries, and collections. Seats at the grand opera range in price from fifty cents to two dollars and a half, theatre prices running about the same. Students obtain from ten to twenty-five and frequently fifty per cent. discount from these prices.

Germans regard theatre going as a part of their education, and it is not uncommon for them to attend the same production a great many times. More Shakespearean plays are given in Germany than in either England or America. The German classics also are in high favor.

While in Berlin, Mr. Coombs witnessed many imposing military displays, in which the Emperor took a prominent part. He represents the latter as being quite popular in Prussia, though fears are entertained as to where his vagaries may lead him next. In some other parts of the empire he is tolerated, and in others openly disliked.

Personal liberty is much more restricted than in England or America. The press, though theoretically free, is practically muzzled; as a result, the social democrats, who are not anarchists by any means, but people who desire more freedom, are gaining strength every day.

In the middle of March, Mr. Coombs went to South Germany and Italy, and also saw part of Austria, visiting Prague and Bohemia, interesting historically, from their connection with the “Thirty years’ war” and the pre-reformation period. Italy did not please as well as Germany, poverty and filth being everywhere, though many of the places were of great beauty, particularly Naples and Florence. Of the return to Berlin, through Switzerland, the sail across Lake Constance, the region about which the scene of Ekkhard is laid, was one of the features.

The summer in Berlin is not so pleasant as winter; there is not so much going on, so the spare time was spent in making excursions to adjacent country.

At the close of the spring term, Mr. Coombs visited Weimar, where Goethe lived, and Eisenach, rich in memories of Luther, and Frankfort, where Goethe was born, the house being still preserved.

On the boat down the Rhine, two-thirds of the passengers were Americans and English. Before leaving for home, Prof. Coombs spent a week in Paris and another in London. He expressed himself as highly pleased with his stay abroad, and is enthusiastic over the opportunities which Germany offers to the American student.

**Changes about Tech.**

Since June a large number of improvements have taken place, and while all are not yet fully completed, they are expected to be in the near future. The library, which formerly occupied but two rooms, has been extended so that it now includes another class-room and the small room in which the instruments of the Civil Engineering Department were kept. Miss Francis, the librarian, is arranging the books so that it will be easy to find one when wanted. Students are allowed to take books from the shelves for use in the room, but are not permitted to put them back. The new arrangement ensures quiet and is quite a relief from the old order of things, when the library was used principally as a reading-room. To provide for students who wish to study or congregate, a small room has been set aside in the new Mechanical Laboratory. The testing apparatus and other equipments of the Mechanical Laboratory are partially set up, all the necessary apparatus having been ordered, and the work is to be hurried as much as possible.

The new power house has two new engines already set up, and also two boilers.

The wood-room has undergone some radical changes. On the south side, next to Boynton Hall, a portion of it has been partitioned off and is to be used as the shop draughting room. The wood turning lathes have been set up in the outer shop along the east side, by the windows. The elevator work and pattern-making is now done in the new shop, most of the machines having been moved in there.

The mechanical drawing-room has changed its old quarters for handsome, commodious ones in the new laboratory.

Prof. White now has the room which Prof. Conant formerly occupied, in Boynton Hall, rooms having been fitted up for the latter’s use on the second floor of the Salisbury Labora-
tories. It is intended, when the room which was formerly occupied by the mechanical department, on the first floor of the Salisbury Laboratory, is vacated, to use it as an electrical workshop. Prof. Kimball has purchased eight motors and other materials, and intends to give the electrical engineers a large amount of practical work.

---

THE FOOTBALL PRACTICE.

Notes on the Team.

The way the men are taking hold of the game is a good indication of faithful work on the part of all.

Owing to the fact that Brigham, '96, did not return to college this fall, it was necessary to elect another captain, and H. H. Morse, '97, was chosen for that position. The management has secured the services of Mr. Gage, an old Harvard quarter-back, who is on the field every afternoon, and gives the men as thorough and careful coaching as one could wish. These men, with the assistance of Profs. Conant and Coombs, should be of much service to the team.

Every afternoon from 4:30 till after 6 o'clock the men are out for practice on the field just back of Dr. Mendenhall's home. They seem to have a lively interest in the game, as is proved by the fact that two elevens are out each night.

The members of last year's team who are not candidates for positions on this year's team are quarter-back Warren; Brigham and Davis, guards; Ware and Cunningham, ends; Leland, right-tackle; Allen, half-back; and Killam, full-back. As with the above exceptions all the old men are back, it will be seen that the weakest positions at present are the guards and quarter-back.

For the guards, Perkins, '98, Harrington, '95, and Clark, '98, are the most promising men, while Ross, '96, is also trying for one of these positions. The position of quarter-back still seems to be an open question, but several good men are trying for it. There are many candidates for the ends and tackles, but the choice will probably be made from Parks, '96, Smith, '97, Brown, '98, Booth, '98, Brown, '97, and Harris, '96. The backs will, as far as can be seen now, be decided from the following men: Vaughn, '96, Hitchcock, '98, Rebboli, '99, and Mayo, '96. Capt. Morse will play his old position, full-back.

Several practice games have been played with the High School team but, as usual, nothing can be determined from these games, as in every case Tech won. Every night the Varsity lines up against the second eleven, which has been organized, and will play several games before the season closes.

The team is light this year, but for that matter the team for several years has been light and still done excellent work.

FIRST GAME A TIE.

Tech Meets Worcester Academy.

Tech opened the football season at the Academy last Saturday, and was robbed of a victory only at the very last moment. Tech, as a general thing, played the better game, as their gains were steadier; but a few lucky runs around the end did the business for the Academy and enabled them to get their ten points. As might be expected at this early season, the defensive work of both teams was poor. Tech's light guards however, did much better than was expected, holding the much heavier Academy men in good shape.

The day was terribly hot, and hard work could not be expected of the teams. The weather was accountable for the shortness of the game, which consisted only of halves of 15 minutes duration. Delays were frequent, however, for the players were overcome by the heat every few minutes.

The teams lined up as follows:

ACADEMY.

Anderson, right end left
Campbell, right tackle left
Hastings, right guard left
Hanley, centre
Wheeler, left guard right
Hodgkins, left tackle right
Merrill, left end right
Fish, quarter-back
Hersey, right half-back
Robinson, left half-back

TECH.

Brown
Booth
Clark
Riley
Perkins
Parks
Smith
Harris
Willis
Vaughn
Hitchcock
Rebboli
Edmans (capt.), full-back
Morse (capt.)

The referee was H. L. Badmun; umpire, H. L. Towne; linesmen, L. E. Ware and G. S. Blakeley.

Academy won the toss and took the ball. Edmans kicked off. Hitchcock caught the ball and brought it back 10 yards. Vaughn went through the line for another 10 yards, and then Tech fumbled and Academy got the ball. They started in with vengeance. Hersey went around the end for 35 yards before he was stopped. Robinson failed to gain, and then Hersey took it again to the 5-yard line. Here, after each side had the ball once or twice on account of bad fumbling, Academy pushed it over the line for the first touchdown. Edmans kicked goal.

Academy 6; Tech 0.

Tech then took a brace and forced the ball steadily down the field. Morse gained 5 yards and Hitchcock 20. Then Vaughn plugged through for 12 yards, and Hitchcock kicked goal. Tech 6; Academy 0.

Academy next got the ball on Tech's 42-yard line; and McCarthy kicked off. Edmans caught the ball and rolled around, downed in Tech's backfield. Hitchcock kicked goal. Tech 6; Academy 6.

The last game was a real treat. Edmans kicked off and Edmons caught the ball, advanced 36 yards, and kicked for goal. Edmons' kick was good. Tech 6; Academy 9.
the line for 4 more. Morse again went for 5 yards and Perkins did the same. Then by another play through the line Vaughan took the ball over for a touchdown. The try at goal failed.

Academy 6; Tech 4.
The remainder of the half was rather uninteresting, neither side having enough strength to take the ball very far from the centre of the field. Time was soon called, and the players took a much-needed rest.
The second half opened with Rebboli in Hitchcock’s place. Riley kicked off and Edmands brought the ball back 15 yards. Tech lost 5 yards for off-side play and then Edmands punted for 30 yards. The Tech backs bucked the line and worked the ends for good steady gains; Harris then went for 8 yards around left end. Then Willis fumbled, but Academy failed to gain and had to give the ball back. Tech failed to gain. Smith was then substituted for Parks, who was slightly injured. Then followed considerable fumbling and the ball was exchanged several times. Finally Harris made a good gain. Then the ball was dropped, but Tech was fortunate enough to keep it, as Brown happened to fall on it. Academy held well and Tech did not gain for two downs. On the third down Harris went around the end and scored. Riley kicked a pretty goal. Score:

Tech 10; Academy 6.
The game then looked sure for Tech, as there were but two minutes more to play. Edmands kicked to Willis, who brought the ball back a few yards. Tech failed to gain in three downs and thought it best to punt. Edmands caught, and came back 10 yards when he was prettily dropped by Rebboli. Robinson then ran around Tech’s left end for 20 yards. Academy then tried the centre but failed. Robinson was again given the ball, and poor work by the Tech end and tackle allowed him to make a long run and a touchdown. Edmands kindly accommodated the Techs by failing in the try for goal. Score:

Tech 10; Academy 10.
There only was a few seconds for play. Edmands caught the kick-off and brought the ball back 10 yards. Time was then called with the score:

Tech 10; Academy 10.

---

THE FRESHMAN CLASS.

As near as we can ascertain, the following is a list of the members of the Freshman class:

<table>
<thead>
<tr>
<th>NAME</th>
<th>HOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. E. Austin</td>
<td>Worcester.</td>
</tr>
<tr>
<td>A. M. Andrews</td>
<td>Gardner.</td>
</tr>
</tbody>
</table>

P. L. Clark,
M. E. Havener,
H. L. Hastings,
M. A. Smith,
A. S. Van Ostrand,
R. T. Gifford,
R. C. Glazier,
A. N. Goddard,
E. F. Gould,
W. S. Graffam,
Frank Hall,
L. P. Hapgood,
H. W. Haynes,
C. W. Hilbert,
R. H. Hitchcock,
H. A. Hitchcock,
A. F. Hussey,
J. F. Howe,
E. R. Johnstone,
A. A. Kent,
W. J. Knowlton,
G. W. Lee,
R. G. Lewis,
A. C. Livermore,
H. C. Lyon,
S. G. Luther,
Geo. R. Matthews,
A. W. Olds,
E. M. Peck,
F. W. Putnam,
J. B. Bartholomew,
L. Bartlett,
W. B. Blake,
H. M. Chamberlin,
H. H. Clark,
Harry A. Clark,
C. Bertrand Coburn,
F. W. Cole,
J. H. Curtis,
T. C. Davis,
B. W. Dean,
W. Clifton Eddy,
S. S. Edmands,
O. J. Farwell,
Geo. A. Gabriel,
F. L. Pettibone,
C. J. Rebboli,
Ernest E. Rich,
T. R. Sanders,
L. E. Smith,
M. A. Smith,
C. B. Syner,
W. R. Traill,
O. P. Tyler,
G. R. Vaill,
E. P. Valdivieso,
A. C. Vinal,
L. A. Vinton,
P. W. Wood,

Washington, D. C.
Worcester.
" 
Millbury.
Fitchburg.
West Gardner.
Worcester.
Springfield.
Providence, R. I.
Fishkill-on-Hudson.
Athol Centre.
Worcester.
Chicopee.
Bath, Me.
West Boylston.
Chicopee Falls.
Wilbraham.
Worcester.
Bonds ville.
West Winsted, Conn.
Fall River.
Holyoke.
Chicopee Falls.
Fall River.
Worcester.
Hartford, Conn.
Monson.
Webster.
Worcester.
Springfield.
Newport, Vt.
Worcester.

Walpole, N. H.
Worcester.
N. Brookfield.
Hubbardston.
Worcester.
Hartford, Conn.
Worcester.
Baldwinville.
Cameron, Me.

Yonkers, N. Y.
Spencer.
Milford.
Worcester.
Porto Rico, W. I.
Westboro.
Worcester.
Millbury.
CHANGES IN INSTRUCTORS.

During the summer vacation a few changes have been made in the Faculty and instructors, Mr. Z. W. Coombs, who was abroad last year, has been made Assistant Professor in Modern Languages. Mr. Beals has been transferred to the Salisbury Laboratories, and is instructor in physics and mechanics. Mr. J. K. Marshall has been appointed Registrar and will take the place of Mr. Beals in the office. The Freshman mathematics are in charge of Professor Conant in the Salisbury Laboratories, while Professor White uses the room formerly occupied by Professor Conant as a recitation-room for the civil engineers.

NOMINATIONS FOR ATHLETIC ASSOCIATION.

Nominating Committee Meets.


WASHBURN ENGINEERING SOCIETY.

Fourth Annual Meeting.

In accordance with the usual custom, the annual meeting of the Washburn Engineering Society will be held on the second Monday in October, which this year comes on October 14th. The meeting will be held in the Lecture Room of the Engineering Laboratory, and will be called to order at 8 p. m. The first business will be the election of officers for the ensuing year. The subject for discussion, "The Gas Engine," will then be taken up. Papers on this subject are expected from Roscoe H. Aldrich, '84, and Paul B. Morgan, '90. It is, however, hoped that the discussion will not be limited to the above mentioned gentlemen, but rather that many members will take part in it.

TECHNICALITIES.

A party of ten Tech men spent ten days in Lowell last July, testing a 1000-horse-power boiler. They report a most enjoyable time. The hours were long and the temperature high sometimes, but the men soon became accustomed to it and gained considerable experience.

Students in all departments are now required to take shop practice during the first half of the Freshman year. On this account the entering class has its practice by divisions.

F. T. Craig, formerly connected with the tool-room at the Shop, is one of those missing on our return from vacation.

Stanley Walls, who went last spring to his home in Nova Scotia owing to ill health, is again at work in the Shop.

A course of Monday lectures is being arranged by the president. They will probably not begin before January.

F. J. Ramirez, '96, spent his summer vacation travelling through France, Germany, Switzerland and Italy.

Mr. Beals, formerly instructor in mathematics, is now connected with the Department of Physics.

Dr. Kinnicutt is in Europe studying Technical Chemistry.

H. L. Daniels, '97, the promising sprinter, has left Tech and entered Cornell.

W. S. B. Dana is taking a course in architecture at M. I. T.

Among others of the Junior class who have not returned, are Powers, Lamson, Currier and Williams.


DIED.

'88. J. Fred Temple was accidentally drowned on July 21st, at So. McAlister, I. T. Mr. Temple was a member of the American Society of Civil Engineers, and Bridge and Office Engineer of the Chictaw, Oklahoma and Gulf Railway.

'95. Below is a list of the men, with their occupations, as far as can be learned at this writing:

Albertson, C. W., is with W. R. Albertson at Worcester.
Allen, M. C., is Assistant in Steam Engineering at W. P. I.
Barber, H. E., with Speirs Mfg. Co. at Worcester.
Clement, A. W., with Wheelock Engine Co. at Worcester.
Coles, H. L., with Morgan Construction Co. at Worcester.
Davis, H. R., with Merrimack Mfg. Co. at Lowell.
Favor, H. H., with Anchor Electric Co. at Boston.
Fay, A. E., Graduate Student at W. P. I.
Field, H. E., in foundry business at Providence.
Fuller, H. J., with Fairbanks Scale Co. at New York City.
Harrington, C. A., Graduate Student at W. P. I.
Hove, A. W., with Metropolitan Water Board at Clinton.
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