COMMENCEMENT NUMBER.

CONTENTS.

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vale, Eighty-Nine</td>
<td>79</td>
</tr>
<tr>
<td>Out Into the Wide World</td>
<td>80</td>
</tr>
<tr>
<td>The Week's Work</td>
<td>81</td>
</tr>
<tr>
<td>Class Day</td>
<td>81</td>
</tr>
<tr>
<td>Class Oration</td>
<td>82</td>
</tr>
<tr>
<td>The Alumni Reunion</td>
<td>84</td>
</tr>
<tr>
<td>The Alumni Dinner</td>
<td>86</td>
</tr>
<tr>
<td>Eighty-Five's Reunion</td>
<td>88</td>
</tr>
<tr>
<td>Commencement Morning</td>
<td>88</td>
</tr>
<tr>
<td>Pres. Fuller's Reception</td>
<td>90</td>
</tr>
<tr>
<td>At Mechanics Hall</td>
<td>90</td>
</tr>
<tr>
<td>Valedictory</td>
<td>95</td>
</tr>
<tr>
<td>The Farewell Banquet</td>
<td>96</td>
</tr>
<tr>
<td>Eighty-Seven's Reunion</td>
<td>96</td>
</tr>
<tr>
<td>Facts About Eighty-Nine</td>
<td>96</td>
</tr>
<tr>
<td>The Athletic History</td>
<td>98</td>
</tr>
<tr>
<td>At The School</td>
<td>101</td>
</tr>
<tr>
<td>At The Shop</td>
<td>102</td>
</tr>
</tbody>
</table>

WORCESTER, MASS.

THE WORCESTER POLYTECHNIC INSTITUTE.
W. H. JOURDAN & CO.,
ANTHRACITE AND BITUMINOUS
COAL,
WHOLESALE AND RETAIL.
Fire Sand, Clay and Brick,
Offices: 366 Main St., and at Yard,
Green Street.
WORCESTER, MASS.
W. H. JOURDAN, W. G. STRONG, W. S. JOURDAN.

CHAS. F. HANSON & CO.,
317 Main Street, - Worcester, Mass.

The Best Place in the city for Fine
VIOLIN, GUITAR AND BANJO STRINGS.
Violin Outfits a specialty, prices from $5.25
upwards. Fine Banjos and Guitars. We refund the
money if goods are not as represented.

W. A. ENGLAND,
Wholesale and Retail Dealer in
WATCHES,
DIAMONDS,
JEWELRY,
CLOCKS,
BRONZES,
SILVERWARE.

AND-

OPTICAL GOODS, &c.
Fine Goods at Reasonable Prices.
REPAIRING in all branches done
promptly.

Please give us a call.

394 MAIN STREET,
WORCESTER, MASS.

THE HERCULES
TURBINE WATER WHEEL.
Best
Part-Gate
Efficiency of
Any Water
Wheel ever
made.
Manufactured by

HOLYOKE MACHINE CO.,
WORCESTER, MASS.

W. P. ROWELL,
MEN'S FURNISHINGS,
Hats, Etc.
HEADQUARTERS FOR TRUNKS.
AGENT TROY LAUNDRY.

183 MAIN STREET, Cor. THOMAS,
WORCESTER.

FRANK H. RICE'S
Photographic Studio,
311 MAIN STREET.
Makes a specialty of Photographic Work of all
kinds and sizes.

Having received the generous patronage of former
students, I respectfully solicit the same in future from
the Institute this sheet represents.

Special rates to clubs if desired.
C. A. BOYDEN,
Picture Frame Manufacturer,
AND DEALER IN
ENGRAVINGS, ETCHINGS, PHOTOGRAPHS AND PHOTOGRAPHIC GOODS.
Blair Cameras of all kinds constantly in stock, also Lenses, Paper, Plates, Cards, Mounts, Etc.
Sole Agent in Worcester for Eastman's New Detective Camera "THE KODAK."
100 pictures can be taken without changing or opening the camera. Call and See it.

C. E. NEALE,
DEALER IN
Drawing Instruments and Machinists' Tools.
SPECIAL PRICES TO W. P. I. STUDENTS.
171 Main Street, WORCESTER.
N. B.—ALTENEDER, and KEUFFELL & ESSER Instruments a specialty.

GO TO THE
CITY HALL SHOE STORE
For anything in the Line of Footwear.
Only Agents in Worcester for
NELSON & SON'S FINE SHOES FOR GENTLEMEN.
Dadmun, Heywood & Co.

BICYCLES AND TRICYCLES.
During the past three years there has been more Victor Cycles sold in this section than ALL other makes combined. Call on us at 315 Front St. and see them.
LINCOLN HOLLAND & CO.

CHAS. HAMILTON,
BOOK, JOB, CARD, POSTER AND NEWSPAPER PRINTERS,
NO. 311 MAIN STREET, WORCESTER, MASS.
IMPROVED
WHEELOCK ENGINE.
50 to 3000 Horse Power. Built in all Forms.
CONDENSING, COMPOUND, TRIPLE EXPANSION.
WHEELOCK ENGINE COMPANY,
WORCESTER, MASS.

THE DEANE
Steam
Pumps.
Pumping
Machinery,
FOR EVERY DUTY.
The DEANE STEAM PUMP CO.,
HOLYOKE, MASS.

BUY YOUR CLOTHING OF THE

The 'One Price' Clothiers,
408 & 412 Main Street,
FIRST NATIONAL BANK BLOCK, WORCESTER, MASS.

The Largest, Finest and Most Complete Assortment of MEN'S, BOYS' and CHILDREN'S
CLOTHING: AND: FURNISHING: GOODS
TO BE FOUND IN THE CITY.
VALE, EIGHTY-NINE.

"COMMENCEMENT Day has come and gone" is the sentence usually employed by editorial writers on such occasions as these, and the W P I feels that it would neglect a time-honored custom of the college press if it omitted this expression from its valedictory to Eighty-Nine. And this might be enlarged upon with the help of "tears of parting," "fond handshakes," "conscientious endeavor" and "manly purposes." But we refrain. Whole cartloads of advice fall yearly with dull, sickening thuds upon the defenceless heads of graduating classes, and miles of sentences are strung together to direct their future course in the way it should go. If these graduates lived up to a tenth part of the lofty sentiments expressed at this time, they would be perfect paragons of virtue.

In base-ball parlance, Eighty-Nine has finished practicing and has "gone to bat." Old Father Time, the veteran pitcher who never gets rattled, is preparing to send in his most puzzling outshoots and drops. Some will make home runs. Some will send the ball over the right-field fence, but it will be foul. Some will get their bases on balls, but will be caught trying to steal second. Some will ignominiously strike out. And when the game is at an end and they all file up before the Recording Angel to give the score, let us hope that the record will be sufficient to merit the golden crown and the walk down the pearly streets.

The W P I wishes to put on record its sincere regret at the departure of Eighty-Nine from the school. There are some first-rate fellows in the class whom we shall miss next year. We shall miss her athletic members, and we shall miss those who have shown rare executive ability in managing the school's athletic interests.

With the happy exercises which are chronicled in the following pages, the class starts on its career. From all the undergraduates the heartiest wishes accompany each individual member. We have worked side by side with you, Eighty-Nine, and we know of what you are capable. We know that if you begin well, with clear consciences and receipted bills for a year's subscription to the W P I, you cannot fail to be a credit to yourselves and to your Alma Mater.
Out Into the Wide World.

The W. P. I. Graduates its Nineteenth Class.

EIGHTY-NINE LEAVES THE BOSOM OF ALMA MATER

To Test Results of Three Years of Her Teachings.

Another Elm-Tree is Committed to Nature's Care,

And Another Crop of Theses Adds to the World's Knowledge.

IN A ROUSING BANQUET THE NEW BACHELORS OF SCIENCE

Fittingly Celebrate a Turning-Point of History.

The Alumni Association Meets and Several Classes Reunite.

VACATION REALLY BEGINS IN THE HALLS OF LEARNING.

A collection of school-boys three years ago—a group of men to-day, the finished product of this grand education known as technical training,—these two antitheses indicate the change that is experienced every year by our graduating classes. The class of Eighty-Nine is no exception to this rule. The boys who, three years ago, filed up to chapel with quakings in their hearts and hayseed in their pockets, but with their minds fairly ablaze with the fires of lofty ambition, go forth now from the Institute changed in form, expanded in intellect and indelibly stamped with the trade-mark of a technical school. And we think Eighty-Nine deserves to be congratulated on receiving its diplomas, representing as they do three years of the hardest kind of work in mastering a trade. When we see the thousands of young men who go every year from our colleges into over-crowded professions, when we note that the champion heavy-hitter of the ball nine is in greater demand than the valedictorian of the class, we cannot help thinking that an education which trains the brain at the expense of the hands is unfitted to meet the wants of this bustling, nineteenth-century, American life. Brains tell, but the hands execute. The man who is fortified by his own experience in knowing just what to do and the best way to do it, has an immense advantage over the visionary schemer who is unable to plan rationally and totally incompetent to execute understandingly. Practical men are in demand and the demand is greater than the supply.

Eighty-Nine goes out into the wide world at the beginning of the third decade of the school's existence. At no time in her history was Alma Mater more in need of her children's protection. Fondly she treasures their memory and proudly she looks to them to uphold her reputation and her prestige. From the seed scattered on this day of graduation she expects a sure, a swift and an abundant harvest.
THE WEEK'S WORK.

A Long and Varied Programme Fills Four Memorable Days.

Tuesday afternoon, June 25th, the graduating class met at Mechanics hall for final instructions. Wednesday afternoon, in accordance with the custom established by the class of '88, was set apart for the exercises of Class day. On Wednesday evening, the sixteen annual meeting and banquet of the W. P. I. Alumni Association was held at the Bay State House, with Vice-President Charles L. Allen in the presiding officer's chair. Eighty-Five held a reunion the same evening at the Lincoln House. Thursday morning the thesis abstracts were read before the examining board at Boynton hall. In the afternoon, President Fuller and Mrs. Fuller received the graduating class at their residence on Boynton street. Thursday evening, the formal graduating exercises took place at Mechanics hall, the annual address being delivered this year by Major J. W. Powell of the U. S. Geological Survey. At the conclusion of the exercises the new graduates re-assembled at the Bay State House and held forth hilariously until far into the following morning. At the same time, the class of '87 was holding a reunion in an adjoining room.

CLASS DAY.

An Elm-Tree Planted, Followed by Interesting Literary Exercises.

The weather is a large factor in determining the success or failure of class-day. Wednesday opened in a manner anything but auspicious for success in this respect. When the morning sun tried to peep up over the New England horizon on that day, he found an effectual barrier of dark, damp clouds from which the rain plunged down in fitful showers. As the morning grew, however, a strong breeze came up which gradually dispelled the dark portents of dampness. At twelve o'clock the sun was shining, and when the time for the exercises about the tree came, a most refreshing breeze was blowing from the west. During the progress of the literary exercises scurrying clouds obscured the hot rays of the sun and fairly completed the weather arrangements for an ideal day.

Seats had been arranged for the spectators on the shady knoll adjoining the electrical building. The stand from which the speakers held forth was located at some distance from the audience under the shade of a convenient elm. Preliminary to the exercises about the tree, and interspersed between the orations and papers, Battery B band, twenty-six pieces, discoursed excellent music.

Promptly at 3 o'clock the class, in double file, marched down the drive-way under the leadership of grand marshal Frank W. Treadway, of the Middle class, and gathered in a circle about the young elm soon to be dedicated. Every man advanced and tenderly deposited a showei-full of earth about the tree. The class ode, written by F. L. Sessions, was sung to the music of the familiar Spanish hymn, as follows:

CLASS ODE.

CLASSMATES, ere the day's decline,
Join a song to Eighty-Nine,
While above us from the hill
Alma Mater greets us still.

Long the battle seemed to fight,
Short the day as nears the night,
Crowned by our victories won,
Here we rest, one battle done.

Stern at times was her command,
Sweet relief came from her hand.
Kindness, truth, all virtues shine
In the smile of Eighty-Nine.

In the past we pledged the cup
E'er to bear her honor up—
May our hearts in grief be still
If we fail this to fulfill.

So to-day, my classmates dear,
As we give our farewell cheer,
Drinking deep sweet friendship's wine,
Join the shout for Eighty-Nine.

Then the class marched back and filled the front row of the seats reserved for spec-
tators. President Stowe prefaced a few words of welcome to a “Declaration of Independence of the Class of Eighty-Nine.” Mr. Penniman delivered the class oration. Mr. Kimball read a class history and Mr. Bigelow the class statistics. Mr. Rheutian read the class prophecy and Mr. Hartwell the prophet’s prophecy. Mr. Penniman departed from the usual custom of class orators and discussed, in a manner which showed him to be thoroughly conversant with his subject, an important phase of the labor problem. He said:

CLASS ORATION.

Mr. President, Classmates and Friends:—It has been perfectly natural for class orators, when seeking the subject for their oration, to have suggested to them the class itself, or the class tree, as themes upon which to spend their eloquence.

If we but look back at the orations of former classmen we shall find beautiful and flowery descriptions of that tree—the elm—which it has been the custom for departing classes to leave on these grounds as a memorial to themselves. With these descriptions we shall find all the comparisons which may be made between class and tree as parties having but just started in life and having before them bright futures of ever-increasing usefulness. We shall find, too, that some classes have unweariedly fought the battle here at the Institute, and at the end, with a brilliant record of achievements accomplished in the past, have gone forth to engage on the broader battle-field of life.

We, too, the class of ’89, have planted our elm. You see it there decked with the orange and blue. We trust that it may find here a genial home; that it may grow to be as stately and majestic as other elms; that its foliage may not be less luxuriant, or its shade less grateful. But, having carefully examined this tree of ’89, your orator has failed to discover any particular and distinguishing feature which could inspire him to add to what has already been said on occasions similar to this. He will therefore leave the tree for John and fostering Nature to care for and nourish.

Having done with the tree, I still might follow custom and speak to you of the class and of its record of achievements. But we have a historian to tell you of our past, so I will not trench upon his ground. We have, too, a prophet who will reveal to us and to you our future. He will, I have no doubt, trace the coming life of each member of ’89 in detail, and bring relief to those of us who are at present a little anxious to find employment, by telling us just what we shall have to do. But there is a field of work into which we, as a class, shall enter, and of which I think our prophet will not speak. We are of course interested in our future work, and if I depart from the usual custom, and seek my subject there, I am sure you will pardon me.

The graduates of an institution like the one we are leaving are not as a rule capitalists, nor are they to be found in what is known as the laboring class. Their whole school-training fits them to become in some measure, large or small, superintendents, directors, organizers of industry. These men form a class known in political economy as the “entrepreneur” class, and to this group of men, their importance and their place in modern industry, I beg your attention.

I have already said that the entrepreneur is the superintendent, the director, the organizer of industry. When the products of industry were less varied than to-day; when materials were simple; when none but hand-tools were used, and each artisan working at his bench could make the whole article to be marketed; when styles were standard and the market within narrow bounds,—then the need of the master was not felt. But when the forms of production became many and complex; when costly materials must be gathered from distant lands; when the hand-tool gives way to the machine; when the giant factory absorbs a thousand petty shops and many persons of all degrees of intelligence and skill contribute by their united efforts to a result which perhaps no one of them fully comprehends; when standard styles are replaced by fashions as variable as the winds, and when the market is as broad as the world,—in such a situation the master, the entrepreneur, becomes a necessity. He must furnish the technical skill, the commercial knowledge and the powers of administration. He must assume the responsibilities. He must shape and direct production, and organize and command the armies of industry.
Whether we regard this as the best system or not, whether we are pleased or displeased at the extension of the principle of mastership in industry, it is the most characteristic feature of the industrial system of to-day and everything points toward the further extension, rather than toward the restriction of this same principle.

It is true, systems of industry have been tried in which mastership was to disappear. By co-operation is usually meant a scheme to do without this middle man, the entrepreneur,—to unite in one the man and the master. But so far from having accomplished the abolition of mastership, there never was a time when the man and the master were so far apart, and this separation tends continually to increase. The possibilities of gain or loss were never so great as now, and the difference between success and failure has never so often been the direct result of the difference between able and inferior management.

The entrepreneur finds his motive for engaging in business in the profits, large or small, which he hopes to realize. His entire personal interest in production is found here. That he is, as a rule, successful, is far from true. Indeed, hundreds of men each year enter this class only to make dismal failures. On the other hand, there are those of exceptional abilities who are deriving large profits. This benefit obtained by the master, his profits, has caused not a little jealousy on the part of the laborers and the capitalists to whom he has paid wages or interest. The strife between the laborer and the capitalist is one of the most troublesome problems of the day; and the entrepreneur, standing as he does between these two men, is exposed to the attacks of both of them.

If we, the class of '89, are to identify ourselves with the masters of industry, as no doubt many of us will, we must not expect smooth sailing. We shall find that the anarchist, the socialist and the advocate of co-operation will credit us with no excuse for living. The anarchists would not find us a place in the world anywhere, unless, with them, we were aiming at the destruction of the present social order that anarchy might take its place. These men need no answer. When they begin to carry out their threats, there is outlined a very definite way to deal with them, and the business will be quickly but thoroughly done.

The socialist will inform us that the workman's share of the national wealth is continually growing smaller; that there is an ever-increasing tendency of all business operations and enterprises to become concentrated in fewer hands. He will claim that this is but a direct result of the present industrial system, and that that system must be revolutionized. In this revolution, the socialist will not allow private enterprise. The State is to monopolize all enterprise, and this notwithstanding the fact that private enterprise has filled the world with blessings; that it has been the motive power which has moved organizing genius, constructive skill and executive energy. The socialist fails to recognize that a very large part of the value of the product of industry has been given to it by the intelligence, skill and direction of the entrepreneur.

Co-operation, too, as I have said, aims at getting rid of the master. By this scheme the laboring classes expect to divide among themselves the large returns which they now see going to their employers as their profits.

If it is possible for laborers so to organize and unite that they can carry on industrial operations without the services of the entrepreneur, and with no loss of efficiency or economy, who will say that they have not a perfect right to do so? But the difficulties of co-operation have been so many that the scheme has met with but partial and doubtful success. Few bodies of workmen can be found possessing those high abilities of organization and administration which business success at the present demands. The time may come when educated and elevated laborers will be able to give to industrial enterprises as intelligent direction, as close supervision and as energetic impulses as the present successful man of business gives to the enterprises upon which his fame and fortune depend. But that time is far distant, and the laborer will do well to look upon the services of the entrepreneur as a help, rather than as an effort to rob him.

While we should offer no consideration to the crazy nihilist, while we cannot accept socialism as the plan that will settle all labor disputes, and while we must recognize the difficulties besetting productive co-oper-
ation, we should never fail to sympathize with that class whose lot it is to strive and struggle for a bare subsistence. I trust that no member of '89, when he comes to be an employer or to superintend the employed, will ever think of the laborer as some sort of a wild animal who must be pushed down and abused in order to keep him in subjection; that no member of '89 will ever come to regard labor as a simple commodity which he may buy in the open market as he would his cotton or his iron. Unless different motives and principles are involved in the purchase of labor from those involved in dealing with forms of merchandise, the employer will find that much which gives to labor its value is lacking. There will be less intelligence, skill and honesty, less practical interest in the work, and less goodwill toward the employer. I hope that '89 may steer clear of these faults, both for the reputation of the class and for the individual benefit of each member. We shall do but little good in life if we never look below ourselves. We shall find our special field among the laboring classes, whose future seems to darken rather than to clear. Any encouragement and help we shall render to this class will be not only a duty rendered humanity, but capital invested upon which we, as employers, shall realize a high rate of interest.

There has been tried, in many places, a system of industrial partnership between employer and laborer which has met with a great measure of success. I refer to the system of profit-sharing. This system, of which I have not the time to speak fully, saves and enlarges the gains of private enterprise and permits the workman to participate in them. In a large part of the cases where it has been tried it has established an era of good feeling between employer and employé, which has been especially noticeable when contrasted with the usual strife and war. The system, while giving to the laborer a part of the profits, has at the same time usually allowed the employer to receive undiminished returns for the part he has taken in production. This plan of linking a lower to a higher class will elevate the level of the whole, and we classmates, as employers, may sometimes find it wise both for the good which we hope to do in the world and for our own profit and enjoyment, to give the system of profit-sharing a trial.

I think we have come to realize that the entrepreneur is an important factor in the present system of industry. He is in a position to look both ways. He can at once view the forces of labor and of capital. He has the confidence of the capitalist; it is for him to gain the confidence of the laborer. His profits furnish him with a personal interest in production. Those profits can never be rightfully secured by the injury of his employés, by the degradation of their manhood.

"For manhood is the one immortal thing
Beneath Time's changeful sky."

His profits can be constant and secure only when linked with the welfare of his employés.

Classmates, we shall find that it will take much to bring us business success, but if we are to become men—and by men I mean all that the word should mean—we shall find that it will take all, yes, more than all, our knowledge, skill, integrity, courage and forbearance.

There was an attendance of over 1,100 people at the exercises. The ushers were Frank W. Treadway, Paul B. Morgan, Charles S. Cook, Charles F. Treadway, of '90; Harry L. Dadmun, Sumner A. Kinsley, Gerald Alley, '91; Frank M. Savage, Harry D. Yates, '92.

THE ALUMNI REUNION.

The Banquet Preceded by a Lively Business Meeting.

The 16th annual meeting of the Alumni Association was held at the Bay State House on the evening of Wednesday, June 26, 1889. The business meeting, which always precedes the banquet, was held in the hotel parlors and was called to order at 6.55 P. M. by Charles L. Allen, '79, the third vice-president of the association. The minutes of the meeting held June 27, 1888, and written by Samuel S. Jennison, '71, were read by John F. Kyes, '76, and approved without objection. The treasurer's report was presented by E. K. Hill, '71. The total amount of the receipts of the year, including $445.79 from the former treasurer, and $760 from the Thompson Memorial Fund, were $1,359.79, and the total expenses, including
$184.50 for last year's banquet, $193.93, leaving a balance in the treasury at the present time of $1,165.86. Of this amount $1,154 belongs to the Thompson Memorial Fund, $394 having been collected up to June 27, 1888, and the remaining $760 during the past year. The total amount pledged to date is $1,267, of which $113 is still uncollected. The total amount pledged by classes for the coming year is as follows: '71, $55; '72, $25; '73, nothing; '74, $4; '75, $55; '76, $95; '77, $25; '78, $10; '79, $55; '80, $25; '81, $212; '82, $25; '83, $80; '84, $10; '85, $1; '86, $9; '87, nothing and '88, $30. The smallest individual subscription is $1, and the largest is $200, the average being $14.30.

E. F. Tolman, '71, of the executive committee, brought in a written constitution of the Alumni Association, subject to their approval. Some parts of this constitution caused considerable discussion which lasted until the meeting adjourned to the banquet hall. The matter of making the association an incorporated body was discussed at some length, and it was finally voted to instruct the executive committee to secure the incorporation of the Alumni Association. The disposition of the Thompson Memorial Fund was also brought up and a motion passed to the effect that no action should be taken by the executive committee concerning its disposal, and that nothing should be done concerning its use except at an annual meeting of the association, notice of which meeting having been sent to each alumnus at a proper interval before the time of the meeting. Several members of the alumni seemed to think that non-graduate members of the Institute should be allowed to membership in the association and urged such action for adoption by the association, but the prevailing opinion of the alumni seemed to be that non-graduates should not be allowed to active membership in the association, but if any should desire to attend the annual banquet that they would be gladly welcomed by the members of the alumni on the board.

The Thompson Memorial Fund came up again for discussion and the whole matter of its keeping was finally settled by a motion being passed whereby the members of the executive committee of the association were made trustees of the fund. A vote of thanks was passed to S. S. Jennison, '71, for his efficient services as secretary of the association, and J. F. Kyes, '76, was elected to his place unanimously. At this point in the meeting the association adjourned to the banquet hall, enjoyed a fine dinner, followed by the usual speech-making, an account of which will be found in another column. After the speaking the business meeting was resumed. It was suggested to the association that the alumni should be represented on the Board of Trustees of the Institute, and a motion was proposed providing that a committee of five should be appointed, the President of the Alumni Association to be one, which committee should be instructed to take such steps as were necessary to change the charter of the Institute so that it would call for the appointment of three members of the alumni on the Board of Trustees. The suggestion was also made, if the motion was passed, to elect three members of the Board at the present time to serve for six, four, and two years, respectively, after which one member should be elected every two years to serve a term of six years. This matter was pretty thoroughly discussed. The sentiment of the alumni was strongly in favor of its being represented on the Board of Trustees of the Institute, but it was deemed inadvisable to pass such a motion at that time and the motion was withdrawn.

The election of three members from the alumni to represent it on the examining committee for the coming year was taken up at this time. The three members of the committee and alternates, elected for the present year, who did not serve, were elected as a committee for the coming year, and afterwards three alternates were elected. The members elected to represent the alumni on the examining committee for 1890 are as follows:—Harry C. Babbitt, '78; Fred. H. Daniels, '73; William B. Medlicott, '76; and as alternates, Alpheus B. Slater, jr., '81; John C. Woodbury, '76, and Charles D. Parker, '79.

The remainder of the meeting was spent in discussion of the weak points of the constitution. Various suggestions and plans for its improvement were made. The matter was finally disposed of by referring the matter back to the original committee and instructing them to send out printed copies
to each member of the association during the coming year. These copies will be corrected to the taste of each and every member of the association, and at the meeting next June the alumni will undoubtedly have the pleasure of selecting its laws from a greater variety of suggestions than it anticipates.

THE ALUMNI DINNER.

A Large and Enthusiastic Gathering in the Bay State Dining-Hall.

At the conclusion of the first part of the business meeting a pleasant half-hour was spent in greeting old classmates and renewing old friendships. At 8.45 the company formed in twos and marched to the dining-hall. Three long tables ran lengthwise of the hall, the head table at the west side being at right angles to the other three. One hundred and eighteen, including the alumni, members of the class of '89 and invited guests, partook of the banquet. At the head-table was President pro tem. Allen. At his right were Mr. Stephen Salisbury, W. A. Rogers, LL.D., of Colby University, Dr. L. P. Kinnicut and Prof. George E. Gladwin. On his left were Pres. Fuller, Rev. Austin S. Garver and Prof. E. P. Smith. At the south table were the following:

F. H. Brophy, '89.
J. W. Mills, '89.
L. H. Harriman, '89.
A. J. Bean, '89.
Frank Leland, '89.
H. C. Armstrong, '89.
W. W. Sawyer, '89.
E. O. Hathaway, '89.
Ell Pickwick, jr., '89.
M. J. Bigelow, '89.
H. L. Houghton, '89.
A. P. Allen, '89.
J. A. Bayles, '89.
A. I. Gardner, '89.
F. L. Sessions, '89.
R. F. Gardner, '89.
Solon Bartlett, '89.
H. C. Stowe, '89.

Thirty-five graced the middle table:
J. M. Russell, '76.
C. E. Alger, '76.
E. H. Bigelow, '75.
L. M. Muzzy, '76.
W. L. Chase, '77.
John C. Woodbury, '76.
J. O. Phelon, '77.
Geo. H. Haynes.
W. W. Bird, '87.
John C. Knight, '87.
W. A. McClurg, '87.
Geo. A. Ward, '87.
Wm. H. Kirchner, '87.
Geo. F. Holdsworth, '88.
Geo. I. Rockwood, '88.
J. B. Chittenden, '88.

Ralph Woodward, '85.
A. B. Slater, jr., '81.
E. T. Morey, '81.
E. A. Williams, '81.
G. M. Warren, '86.
E. P. Tucker, '87.
H. H. Allen, '87.
W. B. Jewett, '88.
J. W. Patterson, '88.
E. W. Desper, '89.
F. Andrews, '89.
I. L. Rheaton, '89.
A. W. Gilbert, '89.
J. J. Daescon, '89.
W. S. Ball, '89.
A. L. Hadley, '89.
W. S. Putnam, '89.
H. V. Baldwin, '89.

At the north table there were twenty-eight:

E. F. Tolman, '71.
Wm. R. Billings, '71.
Edward K. Hill, '71.
Fred. W. Bateman, '71.
S. S. Jennison, '71.
Solon P. Davis, '72.
Norman Marshall, '86.
Geo. H. Scott, '72.
A. F. Walker, '86.
W. M. Patitsal, '73.
H. B. Sawyer, '86.
H. W. Carter, '86.
A. A. Gordon, jr., '86.
C. A. Chandler, '74.
H. S. Green, '86.
U. W. Cutler, '74.
Clinton Alford, '86.
F. E. Appleton, '74.
P. W. Southgate, '89.
A. T. Marshall, '89.
H. S. Howe, '74.
Wm. H. Hobbs, '83.
W. E. Hartwell, '89.
W. F. Cole, '83.
Edwin G. Penniman, '89.
H. H. Foster, '89.

The company remained rising while divine blessing was invoked by the Rev. Austin S. Garver of the First Unitarian Church of this city. An hour and a half was then occupied in the discussion of the following menu:

Tomato Soup.
Cucumbers. Sliced Tomatoes.
Vienna Rolls.
Boiled Salmon—Anchovy Sauce.
New Bermuda Potatoes.
Fillet of Beef, Larded, with Champignons.
Sweet Bread Croquettes.
Green Peas.
Lemon Water Ice.
Roast Chicken. Asparagus.
Lobster Salad.
English Plum Pudding—Hard Sauce.
Vanilla Ice Cream. Strawberries and Cream.
Assorted Cakes. Nuts and Raisins.
Oranges.
Bananas.
English Stilton Cheeses. Bent's Water Crackers.
Coffee.

When the eatables had been fully disposed of it was half-past ten, and after cigars had been lighted President pro tem. Allen rose and set the ball rolling as follows:

"Gentlemen of the Alumni: It is a great pleasure to welcome here to-night this great number of the alumni of the Institute. The attendance at these reunions grows from year to year, and it seems especially fitting at this time that we welcome with such full ranks these young men representing the graduating class. One familiar face which graced our assemblage last year is lacking at this reunion. We shall miss the graphic accounts of the school and its work which only Prof. Alden could give. The benefits that the school is conferring from year to year are steadily increasing in worth. I wish sometimes that I were a student to enjoy, myself, now, the increased advantages which our Alma Mater offers to her children. As the hour is growing late it is well that we have some remarks from our guests. It gives me great pleasure to introduce as the first speaker, Mr. Stephen Salisbury, of the Board of Trustees."

Applause, loud and long-continued, greeted Worcester's distinguished citizen as he rose to respond. He spoke as follows:
"Mr. President and Gentlemen of the Alumni: I regret that no more members of the Board of Trustees are present this evening. I know that they would be delighted with the large attendance which continually increases, and by the appearance of decorous age of the association. It has been remarked as strange that a course of three years could prepare successfully for life those young men who go forth every year from our Institute. But this success depends upon the fact that, from the very start, they learn to apply themselves; they learn how to study and when to study. By this thorough application at school, they are enabled, when graduated, to continue their further study in the same thorough manner in which they begin. For this you are indebted to the teachers who are so interested in the school and its life; the high position which the school maintains is due to them. I was present at Harvard College Commencement to-day and heard one of the professors say that he received more satisfaction in his daily labors at the present time than he did years ago, because the students accomplish more, show more interest in their work and pursue their efforts with more energy. His former tedious work was now an agreeable occupation. It is a pleasure for me to learn that the system of optional studies at Harvard is so successful. I can see that an enthusiasm is being aroused in the studies of our own school. When this enthusiasm becomes fully developed success will be proportionally greater. I have very little more of interest to say to you. I rejoice in your interest in the Alumni Association." [Applause].

President Fuller was the next speaker. He said:—

"Mr. President and Gentlemen of the Alumni and Guests: The record of the past year, simple facts, and their bearing on the school's work, may perhaps be most interesting at this meeting. The most notable fact in connection with the year's work has been the constant and regular attendance of Mr. Salisbury. [Applause]. He has not been on our rolls but he has attended as regularly as the most faithful student. He has influenced us by his presence and has spurred us to better work. Nothing has been lost by his lack of interest. Not a thing has been left unsupplied. During my twenty years' experience I have never had such a ready response. Everything has been provided for in the most thorough, unstinted and magnificent manner. [Applause]. The laboratories are now completed and I extend a most cordial invitation to you all to come and see for yourselves the result of this great work. The main work in planning and equipping the building has been done by three members of the Faculty, Professors Alden, Kimball and Kinnicutt. They have done all the work in arranging the building and the apparatus within it.

"I am privileged to-night to announce to you (the fact may be known to some, although it has not been publicly announced) another gift of Mr. Salisbury. The whole hill on the south front of the grounds has been given to the school. [Loud applause]. It is proposed to extend the

Jo Bill road around the knoll and grade the whole southern slope.

"If any of you wish to have a last view of the old chemical laboratory, you should see it now. It will soon be a thing of the past. Many other changes are proposed in Boynton Hall. Especially do we need a new library room."

Pres. Fuller also spoke of the new course in electrical engineering, open to graduates of the mechanical department and students of like attainments. It is hoped to lengthen the course of study to four years. In the new laboratories we now have adequate and superior facilities. Our buildings are as well, if not better equipped than any in the country. Pres. Fuller also spoke of the change in the assignment of Worcester County scholarships.

"One other thing: our graduating class this year have applied themselves most diligently. The class has lost none of its members during the whole year because of failure in scholarship. One has been compelled to drop out on account of sickness. In the civil engineering department especially has the work been most encouraging. A single firm has offered to take every member of the class, except one, in the department. These facts, together with the catalogue, show the character of our work. It is good, but it of course can be improved. We are hoping for better things. I bespeak help for these graduates and a hearty reception for them among the brethren of the alumni. I rejoice in the presence of the alumni here to-night, and to-morrow we shall be pleased to see them at the school, where work will be going on as usual, and I extend a cordial invitation to all of you to the reception to-morrow at my house." [Applause].

Professor Rogers, of Colby University, then spoke as follows:—

"When I was invited to serve on this year's examining committee there was no dinner mentioned nor was there any after-dinner speaking nominated in the bond. I am glad to meet you here to-night. I believe in young men—I am a young man myself. As I understand the matter, this school occupies a unique position in the country. In the years it educates young men for a trade. I myself was connected with an attempt, years ago, to strike out into new fields from the old curriculum of Brown University. A scientific course of three years was established, but the times were not ripe for such a change and the attempt was a failure. I do not know of any institution in the country where the ideas of sound scholarships and practical knowledge of subjects as skilled artisans are more successfully joined together than in your school. In my day it would have been utterly impossible. Your school has a good reputation.

"The basis of any system of education is sound scholarship. It is a very necessary requisite and I shall be able to tell better after to-morrow the true results of your system of education. You have turned out skilled men and artisans who have risen to high places." [Applause].

Professor Kinnicutt was introduced as one who
would say something about the Salisbury Laboratories. He said:

"Mr. President and Gentlemen of the Alumni: I regret that President Washburn is not here tonight. I regret it because, in his presiding at former meetings of the association, he has never called two years in succession upon the same speaker. I was a speaker at the reunion last year and I confidently trusted to that fact to escape a similar fate this year. Before speaking of the Salisbury Laboratories I wish to say that we ask the alumni to visit us during the year. We want their assistance and we cordially invite them to come and give suggestions concerning the work. As to the building itself there is but little to be said to you. It is finished now, we can show it to you to-morrow, and it can speak for itself. The trustees have said to us: do what you please to make it as perfect as you can. The entire responsibility has rested upon us; the fault, if any, is ours. Until we begin work we will be unable to judge. We have done our best, have made the equipment as good as possible and we hope that the results will prove that our work has been done well.

"The impression seems to prevail in some quarters that original work in investigation and experiment cannot be done in a scientific school. I beg to differ. It can, and must be done in order that the school may fulfill the high ideal of its purpose. If original work is not done, I do not know what should be the work. The hour is late, gentlemen, and I must close. I thank you for the pleasure you have given me of speaking before you." [Applause.]

President Stowe of '89 was greeted with a round of applause as he rose to respond to the graduating class. He said that it gave him great pleasure to thank the alumni on behalf of the graduates for this feast. "I am privileged to speak for a class which is as yet in its infancy. Its life does not really begin until after to-morrow. We are one with you in the ties which bind us to the school. If we have not realized we will be here next year and will ever endeavor to further the prosperity of the Alumni Association."

At this time (11.15) the guests of the Association occupying the head table left the room. Brief remarks were then made by Mr. S. P. Davis, '72, and Dr. E. H. Bigelow, '75. Mr. C. E. Alger, '76, read the usual alumni committee report on the department of civil engineering. The report spoke of the decided advance of present methods over those of ten years ago. It advised that riveted-connected bridges should be studied; that sewage problems should be investigated during the Middle year; that a course of sanitary engineering should be added. We hail with joy the prospect of better quarters. The work should be eminently practical. Railroad work should be gone into more fully. The Institute has a good instructor in this department. He is doing his work well and should have an assistant. The committee on this report was John P. K. Otis and Charles L. Allen, but the report was read by Mr. Alger.

The report of the committee on physics showed the department to be in a healthy condition. The committees on mechanical engineering and chemistry were not present.

Mr. John C. Woodbury, '76, read a very interesting report on the department of drawing. "The department," he said, "is in a satisfactory condition." [Laughter.] The report recommended, among other things, that color work be done in one tint, and that more attention be given to light and shade. The brushes in use were criticised as being in some cases too large and too much water was used in washes.

No representatives of the committee on language were present.

At 11.45 the business meeting was resumed, an account of which will be found in another column. At three minutes of one the company adjourned after a highly successful reunion.

Eighty-Eight gave their class yell in front of the hotel in parting.

EIGHTY-FIVE'S REUNION.

Old Memories Recalled at a Supper at the Lincoln House.

While the Alumni Association were enjoying the hospitality of the Bay State House on Wednesday evening, the class of '85 were enlisting in a room at the Lincoln House. It was the second reunion since graduation, and about twenty members were present. An enjoyable supper, followed by informal speeches, was the programme. In the absence of President Joseph Beals, who was detained by his duties at the Fall River High School, Marcus J. Patterson presided and called for the following toasts: "The Class of '85," James H. Griffin; "The W. P. L.," Allan D. Risteen; "The ladies," Harry B. Prindle; "Our class baby," Frank K. Rogers; "Our married men," Fred. S. Webber.

The election of officers resulted in the selection of the old board: President, Joseph Beals; Vice-Presidents, Allan D. Risteen, William J. Woods; Secretary, Samuel M. Green.

Adjournment was had to July, 1891, and the members discussed matters of interest until far into the morning.

COMMENCEMENT MORNING.

Theses Read at Boynton Hall, and the Shops Inspected.

The morning of the most memorable day to the class of '89 broke the dawn with every indication of one of the hottest and most sultry days which the capricious climate
of Worcester alone knows how to produce. Even those among the earliest to climb the hill in the morning were only too glad to rest on the way in the welcome shade of the trees. But with the exception of the Preps there were but very few of the students who were oppressed by the heat of this locality until long after the machinery at the shop had been started for the day. The extreme quiet of the shop drew our attention thither at once. From the result of inquiry it becomes our painful duty to record that the Washburn Shops, built and maintained for the purpose of enlightening and pacifying mechanics and preparing them to solve great labor questions of the day, was really the scene of a most deliberate, desperate and non-arbitratable strike.

It has been established by a most respected and time-honored custom at the Tech, that the Junior and Middler mechanics who work in the shop from 7 A.M. to 1 P.M. shall have twelve hours of practice placed to their credit. This inducement of getting double time has always been successful in obtaining a sufficient number of volunteers to keep the machines running and present a busy appearance to the Commencement visitors.

It seems that the shop authorities considered six hours altogether too long to keep the machinery running for inspection, and that double time was altogether too rich for the boys; consequently the announcement was made that the boys would be expected to work from 7 to 10 o'clock A.M., and for this should be given five hours time. The boys were not kindly disposed to the change and the result was that the eight journeymen started up the shop in the morning and whole sections of lathes stood in the most submissive silence for inspection. Upstairs, however, the Preps were all in their accustomed places, and under the skilful guidance of Joe Taylor all went "merry as a wedding bell."

An early visit to Boynton Hall showed everything to be prepared for the event of the day. The first and most welcome sight was that the elevator was really alive and doing well. Great was our pleasure on being allowed to ascend to the top of the building by means of this very comfortable but far from hasty mode of conveyance. Poor elevator! No wonder that you get so stiff and weak from one Commencement to another!

Prof. Alden’s room, the home of these drawings, was the first visited, and the display here showed ’89’s draughtsmen to be well up to the standard. Perhaps we should not refrain from making special mention of the work done by Messrs. Bigelow and Bartlett, which was especially attractive. The stands in the mechanical drawing room were well covered with samples of the work done by each of the classes, while the special drawings, executed by the civils, made an attractive exhibit in the civil engineers’ room. A glance into the chapel showed everything to be in readiness for the coming event, all space available being fitted with seats, and that mysterious centennial chair, which only exists when the elevator runs, was occupying a prominent position on the platform. On the next floor below was found a museum of great curiosities, including a display of free hand drawings, water color sketches, Deutsche Aufgaben, etc., that would challenge the world. We hardly know which of all these was the most interesting to the stranger, but the free hand drawing room got its full share of patronage, and it was amusing to hear the words of praise which would arise from a fair visitor immediately as she found a drawing bearing the name of her gallant escort.

By 9.45 o’clock the chapel was completely filled with guests, and Pres. Fuller announced that W. S. Putnam would read an abstract from his thesis. Those who had been selected to read abstracts and who followed in their order were: Harry L. Houghton, Albert T. Marshall, Solon Bartlett, Ernest W. Desper, Harold C. Stowe, Albert B. Kimball, Wm. E. Hartwell, Myron J. Bigelow and Edwin G. Penniman, this list comprising six men from the mechanical department and two each from the civils and chemists. The examining committee were composed of Prof. John H. Appleton, of Providence, R. I., Charles H. Davis, Esq., of Worcester, Prof. William A. Rogers, of Waterville, Me., Enos H. Bigelow, M. D., of Framingham, Thomas H. Clark, B. S., of Middletown, Conn., and Edward K. Hill, B. S., of Worcester.

Among the other gentlemen whose presence was particularly noticeable were Mayor
Pres. Fuller's Reception.

A Most Enjoyable Time at his Residence on Boynton Street.

Thursday afternoon, from 4 to 6, President Fuller and Mrs. Fuller received the graduating class at their Boynton Street residence. Refreshments were served and the occasion was most heartily enjoyed.

AT MECHANICS HALL.

Thirty-four Young Men Suddenly Become Bachelors of Science.


Senator Hoar presided. Rev. George S. Ball of Upton offered prayer. Major J. W. Powell of the U. S. Geological Survey addressed the audience one hour and fourteen minutes on the subject, "Competition as a Factor in Human Evolution." It was a bright and original treatment of a live subject, and those who listened attentively felt well repaid. A. P. Allen then gave the valedictory. He said:—

Valedictory.

Ladies and Gentlemen: Among all the pleasures and regrets incident to starting on a long journey, there is nothing which so imprints itself upon us, nothing which we delight in recalling so much, as the last few moments spent with our friends, the
last handshakings, the last kind words of encouragement and God-speed. At the time, in the hurry and excitement of departure, they may be hardly noticed; but later, in our calmer moments, when we are far away, they come back to us with remarkable clearness, and we recall with intense interest the least of what occurred.

And thus, I doubt not, it will be with us, members of the class of '89. We are now starting on the most important journey we have ever undertaken, one which will end only with our life's work, but one for which we are not wholly unprepared. We start with an education, not, 'tis true, complete, but one that can be turned to practical advantage; we start with the counsel of those who, for the last three years, have been our instructors and helpers; we start with the good-will and friendship of the citizens of Worcester. For all this we should be, and we are, truly thankful. But a full appreciation of all we have enjoyed will come, not now, at the hour of starting, when our thoughts are so disturbed, but later, when we are well on the way and pause for a moment to look back upon the scenes of student life. May the remembrance be more of pleasure than of regret!

Citizens of Worcester: To you we first extend the hand at parting. You have received and entertained us well, and in countless ways, by your kindness in church, in public and in private life, and by your general interest in matters pertaining to the Institute, have showed your good-will towards us. We thank you, but at the same time we trust that you feel that it is a great privilege to have the Institute located in your city, and to be able so easily to aid it. During the last year, thanks to the unbounded generosity of one of your number, you have seen the scope and possibilities of the school greatly increased. But with these enlarged advantages comes an increase in expense which has necessitated changes in regard to the matter of free tuition; and these changes, though seen to be necessary, cannot but be felt by you whom they so intimately concern. Are there not, however, others, among you who have the means and who would esteem it a pleasure, yes, a privilege, to aid in the higher education of your young men, and, by the endowment of scholarships at the Institute, do something to counteract the effect of such changes? Surely their reward and satisfaction would be great.

Mr. President and Gentlemen of the Board of Trustees: To you, the motive power, as it were, which keeps the whole machinery of the Institute in action, we owe a debt which we shall find it difficult to repay. It is with especial pleasure, therefore, that we accept this one opportunity of publicly thanking you for your work in our behalf while managing the affairs of the school.

At no time, we think, have your labors been more arduous or more filled with good results than during the last year. Though we leave too soon to reap the benefit of all that you have done, yet we have received and have appreciated the benefit of a great deal of it. And at this hour of parting it is a great satisfaction for us to feel that our Alma Mater is constantly widening her sphere of action under the guidance of a Board of Trustees who are not willing to keep forever in the old ruts, but who are ready, and anxious, to make all such changes as the prosperity and growth of this school of science call for. Gentlemen, we leave feeling confident that the wisdom which has characterized your work thus far will continue to be exercised in the future.

Gentlemen of the Faculty: It is one of the unfortunate things about a college course that the acquaintances and friendships formed during it must be so abruptly broken off. For three years we have worked under your instruction; for three years, and those among the most important of our lives, our minds and characters have been developed and strengthened largely through your influence. It would be strange then, if, at the end of this time, we could leave without first wishing to express to you our thanks and appreciation for what you have done. The duties of a teacher are hard and, we fear, all too thankless at the time; but if, for satisfaction in your work, you have to depend in part on the success of those who were once your pupils, we trust that our future record will be such as to increase that satisfaction a hundred-fold.

Since we have been at the Institute we have been deprived, at various times, of the services of one or more of your number, and we are sorry that even to-night all can-
not be present. Last winter we had the pleasure of welcoming back one of you, whose return, at one time, seemed doubtful; we trust that those now absent will not have to repeat his experience, but, after their needed rest and recreation, will return at the appointed time, with new vigor, to their work.

Undergraduates: It is now our privilege as members of the graduating class, to say a few words to you who are so soon to take our places. And first we wish to congratulate you on the enlarged and improved facilities for work which will be yours next year. By the opening of the new Salisbury Laboratories, with their conveniences for study and experiment, and their wealth of apparatus, and by the improvements to be made in Boynton Hall, a new impetus will be given to your student life, for which we almost envy you. It cannot fail to add great interest to your work; and if a man is really interested in his work there is little doubt that he will succeed, whatever that work may be.

Therefore, if there is any one thing which we would counsel you to do, it is this: create an interest in every branch of study, or of laboratory practice, that you are called upon to perform, and never study a lesson simply because you think it will help you to pass your final examinations. And, if you wish to reap the full benefit of your course, cultivate the acquaintance of your instructors. You will excuse us for presuming to mention these things, but our experience—and there are some things which can be learned only by experience—lead us to believe that, if this counsel were strictly heeded, the success of the students would be greatly enhanced, while any friction between them and their instructors would be reduced to a minimum.

Our relations with many of you have been but slight, and some of you we could hardly count among our acquaintances, were it not for the common tie of being members of the Worcester Tech. This tie, however, will strengthen as we go out into the world, and if, in after years, our paths of life cross and we meet again, we hope it will be with a feeling of common brotherhood and friendship.

Classmates: My words to you at this time might naturally be but brief, as our final parting is not here. But there are some thoughts which, if not expressed now, will never be expressed. For three years and a half a majority of us have been assembled together from all parts of the State and country, as the class of '89 of the Worcester Polytechnic Institute. We met as entire strangers then, but now, after three years and more of common interests in work and pleasure, we part as well-known friends. We part,—but can we ever be separated as we were separated four years ago? I think not. The ties of friendship which it has taken years to form cannot thus be severed in a moment.

There is one thought that comes to us at this time, which is worthy of our most serious consideration. It is, what relation do we bear to our profession and to society in general, now that we have graduated? And first, what does it mean to graduate,—are we attaining in our diplomas the good for which we are striving, or is there something for us to aim at still?

Graduation, it seems to me, bears the same relation to our professional career as the entrance examination does to the Institute course. By it we are allowed to enter on probation, as it were; but our stay will be short unless we prove ourselves worthy of its advantages. But to do this we must be up to the times in all matters; we must keep up our interest in science and art, by reading the latest and best of scientific books and journals. In these days, a man, to be anything, must be well read in his profession, at least.

And this is not all. We have learned, during the past year, of the great beauty of our political system, in which every man is allowed to take a part. And, if this privilege is given to all, is it not our duty, as members of the more educated class of our population, to see to it that things are done squarely and honestly? Let us not, I pray you, allow those great questions of reform, which we have so ably championed in the class-room, to be entirely cast aside and forgotten in our business life.

And now just one closing thought. Like ships about to sail for foreign shores, we leave the harbor together, side by side. We are bound for the same port, it may be. But even now the mists and darkness are settling around us, and we begin to feel the
winds, the currents and the tides which must soon bear us apart. Some may sail faster than others, some may first catch the breeze, and even with to-morrow's sun be almost lost below the horizon, while yet a few may put back to port for more complete equipment. But though thus scattered, let us never forget each other! Let us never forget the harbor we leave, or the port to which we sail!

"To veer, how vain! On, onward strain!
Brave barks! In light, in darkness too,
Through wind and tides one compass guides—
To that and our own selves be true!

"But O blithe breeze! and O great seas!
Tho' ne'er, this earliest parting past,
On your wide plain we meet again,
Together lead us home at last.

"One part, methinks, alike we seek,
One purpose hold where'er we fare.
O bounding breeze! O rushing seas!
At last, at last, unite us there!"

President Fuller of the Faculty then addressed the class in a happily-worded speech. Diplomas were awarded as Senator Hoar read the names of the class. Mr. Gomes, the foreign member, received a hearty round of applause upon taking his parchment. An event not down on the programme was the conferring of a diploma of the mechanical engineering department upon Mr. J. Brace Chittenden of the class of '88, who took the work of two departments in his three and a half years' course. As he stepped upon the platform to receive his well-earned reward, the impressive silence was broken by a spontaneous burst of applause that fairly shook the hall.

The Graduates' Aid Fund prizes were then conferred upon Messrs. Penniman, Allen, Bigelow, Stowe, Kimball and Southgate.

As each of the prize winners advanced and received the reward of his three years' toil, there came to the mind of the writer thoughts concerning the usefulness of this Graduates' Aid Fund (given by a benevolent friend of the school)—thoughts which can be expressed here without being attributed to feelings of disappointment or jealousy. How much better it would be to abandon this prize package system and devote the original fund to more important uses. It is hard to believe that students strive for these honors for the sake of the paltry $75 involved. It is the honor of graduating among the first of the class that leads one to three years' of hard work. It is the important influence that such a fact will have in obtaining a future situation. The money, in itself, is worth practically nothing for giving substantial aid. Far better would it be to go out into the world with bodies strengthened and brains cleared by thorough training in a gymnasium, the lack of which is such a prominent feature of the Institute. Then the advantages arising from this bequest could be shared by all. We cannot help thinking that this "benevolent friend of the school" would be better satisfied with sound minds in sound bodies, if he has the true interests of the school at heart and desires to give the best possible aid to its graduates.

There was also brought to mind the dramatic scene of a like occasion a year ago, when one of the first six, Mr. J. Fred. Temple, '88, refused to receive the money when it was offered him. But this year's issue of the school catalogue, by an oversight that is annoying to those acquainted with the facts of the case, credits Mr. Temple with having been one of the recipients of this fund for 1888. It is disrespectful to Mr. Temple that such a misstatement should be allowed to go forth from the Institute. Even those who thought his action not justified by circumstances were frank to admit the honesty of his intentions and respected opinions with which they could not conscientiously agree.

At 10.10 the benediction was pronounced by the Rev. Dr. Merriman of the Central Congregational Church of this city.

The diplomas were printed this year from a newly-engraved plate, and the design is tasty and a vast improvement over that of former years.

THE FAR E W E L L B A N Q U E T.

Eighty-Nine Gives the New Degrees a Good Wetting-Down.

Immediately at the conclusion of the exercises in Mechanics Hall, the ex-Seniors began to gather in the corridors of the Bay State, where, the night before, the alumni had assembled before celebrating their annual reunion. Half-past eleven was the time designated for the beginning of the banquet, but half-an-hour before that time nearly every newly-fledged alumnus was on hand, discussing past triumphs and future prospects.
At 11.45 P.M. the boys lined up and gaily marched to the private dining-rooms on the first floor on the Exchange street side. The sliding doors between the two rooms had been pushed back, and on the long table extending lengthwise of the room Douglas and Brown had spread one of their most attractive dinners. Without losing any valuable time, the following menu was hastily attacked —

Little Neck Clams. Lemon.
Mock Turtle Soup.
Vienna Rolls. Lettuce.
Fish.
Green Peas. Sliced Tomatoes.
Fillet of Beef with Champignons.
Bermuda Potatoes. Spinach.
Mayonnais. Lobster Salad.
Roman Punch. Cigarettes.
Roast Grouse with Jelly.
Baked Sweet Potatoes. Asparagus.
English Plum Pudding — Hard Sauce.
Ice-Cream. Neapolitan.
Strawberries and Cream. Assorted Cake.
Charlotte Russe.
Crackers and Cheese. Coffee.

Besides this, there were seven gallons of soul-stirring rum punch, prepared as a private venture by the class itself. The menu card was a tasty folio in stiff cover, from the press of Bailey, Banks and Biddle.

When the above good things were disposed of, the company adjourned to the corridors and the tables were cleared for the feast of reason and the flow of soul. A few of the really dare-devil spirits secured the bass-drum and cymbals that had been procured for the morning procession, and marched hilariously around the hotel. At 1.20 everybody filed back into the hall, and while the bass-drum and other trappings were taken along to keep up the feeling of good fellowship. At this stage of proceedings a request was sent in from two representatives of the W.P.I., desiring the privilege of reporting the speeches which were to follow. An overwhelming “No” vote was the courteous reply and the door was slammed back to keep the merry orgies from the eyes of the pure and innocent undergraduates.

At 1.30 Pres. Stowe rapped for order and introduced toastmaster Kimball. A business meeting was first held, and it was a long and stormy session, lasting from 1:30 until 23 minutes of three. Mr. Southgate, the treasurer of the class, was called on first to give his report. He said:—

Received from former treasurer, $1.00; from assessments, etc., making total receipts to date, $444.70; expenditures: 750 souvenirs, $207.50; class, $50; 1000 programs, $14.50; bound books, $6.50; $2.50; binding cases, $10, and several other items, making a total of $400.45; balance in treasury to date, $46.55. Then the question arose as to how the balance of $59.45 should be paid. Here the fun began. It was thought by the non-drinkers of the punch that they should not be called upon to pay for it. “It isn’t a matter of expense,” said Mr. Kimball, “but some of the class have principles at stake and don’t wish to pay for the punch. So we’ll take a vote and those who drink can pay for the kind of the punch they drink. Those who drink punch can pay for the lemonade, and those who drink punch can pay for the punch.” On a vote being taken, the class which had proudly stated from their class-day platform, two days before, that only 21 per cent. of their number smoked, voted 15 in favor of straight lemonade to 19 in favor of rum punch! This settled the drink question.

Election of officers followed. Upon motion of Mr. Gilbert, two vice-presidents were elected. Result of election: President, A. B. Kimball; Vice-Presidents, H. V. Baldwin, Eli Pickwick; Secretary, M. J. Bigelow; Treasurer Southgate was re-elected. All were elected by acclamation and unanimously. Ex-President Stowe resigned and President-elect Kimball took the chair.

Then the class voted to sell its property. “We might pay for the punch with this money.” Moved, seconded and carried that the property be auctioneered off. Mr. Penniman was appointed auctioneer. Then the second act of the great comedy began. “How much am I offered for these catcher’s gloves?” began auctioneer Penniman. The bidding began at 5 cents, went through 10, 12, 15, and upwards. “These are new gloves,” said Mr. Penniman; “they never won a game in the world, and cost $5.00.” “That’s right!” asked A. P. Allen. “Yes, sir.”

The gloves were finally sold to somebody, as were also the catcher’s mask and various other sundries. The souvenirs remaining were sold. Then Pres. Kimball’s longing for deviltry began to break out in spots. He said: — “Gentlemen, let’s hump this thing. Remember we’re all going up to see the Doc.” This was at 2.10. Then the auction of souvenirs went on again. After selling about a dozen for sums varying from 12 cents to 25, the auctioneer stating after each sale that there were “only three left,” Mr. Baylis moved that the colors be divided equally among the class. Carried. Mr. Smyth was then stuck for $2.10 by the auctioneer for a job lot of faded decorations. At this point Pres. Kimball’s insatiate longing for wild excitement again bubbled over, as follows: — “Say, Penniman. It’s 3 o’clock and we won’t get around to the Doc’s before breakfast if we don’t hurry up.” This happened at 2.25.

About this time a glimmer of sense ran through the assemblage. Mr. Penniman said that Dr. Kinnicutt had spoken to him concerning the advisability of having a class fund. “This is a good idea. It will keep up class interest.” It was moved and passed that contributions for this purpose be given to the treasurer. Mr. Penniman thought it ought not to be left this way. Hoped everybody would pledge a sum and at once and as much as each one pleased. Mr. Penniman also thought that the Thompson Memorial Fund should be supported this money. It is quite probable that they will erect a gymnasium with that money. [Applause]. Moved and passed
that the treasurer find out from every man what he would give to this fund.

"What's the matter with Sawyer and Harri- 
man?" yelled a voice. "They're all right; 
they're asleep!" came the vociferous response. "What's the matter with 'Tuffy' Houghton?" In dulcet tones the punch-flavored reply echoed throughout the dining-hall, "He's all right. He's full!"

At 2.30 Treasurer Southgate said there was a deficit of $42.87. Mr. Penniman moved that an assessment of $1 be levied upon every member of the class and the surplus be given to the class fund. Carried. Mr. Houghton moved that the first boy born to a member of the class receive a silver mug. Great hilarity. Mr. Gilbert moved that it be paid for out of the class fund. Carried. It was then voted to hold a reunion in 1891. Time, 2.37. Mr. Penniman thought there was too much boys' play going on. This closed the business meeting.

Toast-master Kimball called up Messrs. Stowe, Houghton, Baldwin, Allen, Bartlett, Desper, Southgate, Sessions and Penniman to respond for "Orange and Blue," "The Alumni," "That Faculty," "Eighty-Nine in the Field," "The Institute's Best Friend," "Those Undergraduates," "The Ladies," "The Future," and "Steel Gray and Crimson," respectively. The speaking as a whole was very poor, being especially dry and lacking the wit and humor characteristic of anything commendable in the after-dinner line. Mr. Desper's effort was the best of the lot, and Mr. Bartlett's panegyric of Stephen Salisbury was a splendid tribute. Mr. Allen opened up with a snatch of poetry plagiarized bodily from the June W P I. He read his remarks from the proof-sheets of the article on athletics in the last columns of this issue, which had been given to him at his request for that purpose. He neglected, however, to acknowledge, ever so remotely, to whose courtesy he was indebted.

At 3.10, at the conclusion of Mr. Bartlett's speech, three cheers were given for Stephen Salisbury. "Who was Stephen Salisbury?" asked Pres. Kimball, and the response came, to the accompaniment of the bass-drum, "First in war, first in peace, and first in the hearts of his countrymen." At 3.22 a yell was given for Mr. Gilbert. Then they sang, with Mr. Penniman leading, "Where, Oh where, etc." with variations. At 3.27 three cheers were given for '87 in the adjoining room. Eighty-Seven responded touchingly. More hilarily. At 3.35 the three school cheers were given, beginning with "P. I., P. I.," then the old cheer and finally "Polywolly." Fire-crackers were then distributed. "Sit down, sit down," said Pres. Kimball, "we don't want to fire these off on Main Street, but we own Boynton Street and we'll do what we please over there." At just 19 minutes of four the class left the banquet hall, lined up on Main Street with the bass-drum at the head and started for the Institute.

Then everybody looked forward to a manifestation. When the procession reached Harrington's block, on Main Street, Policemen Ramsdell and Green called a halt, and the hearts of thirty-four embryotic mischief-makers dropped with leaden thuds into the boots which, twenty-four hours ago, had averaged 64 in size. Without a murmur the class proceeded up Grove Street and on Salisbury Street, turning the corner of Boynto

The WPI.

EIGHTY-SEVEN'S REUNION.

Six Happy Hours Spent in Recalling Old Scenes.

While '89 was holding its farewell banquet, the class of '87 was enthusiastic in the next room. There was a large and gratifying attendance at the class's first reunion, twenty-two members being present. They were Messrs. Gleason, Fish, McNab, Emory, Chamberlain, Burke, Phelon, Tucker, Bird, Boyd, Rourke, Burr, Ward, Streeter, Fairbanks, Morse, Knight, Sawyer, Grimes, McClurg, Allen and Kirchner. An attractive menu was discussed and speech-making followed. College songs were sung to the accompaniment of Harry Allen at the piano. In the absence of President Chas. B. Murray, Vice-President George A. Ward presided. John A. Chamberlain conducted the informal list of toasts. The meeting broke up at 3.30 Friday morning, after a most enjoyable evening.

When the dawn was fairly breaking, about ten members of the class filed over to the Institute to see how Eighty-Nine was whooping her up, and to hear the speech which the Spy said Professor Smith was expected to make. There was very little speech-making by members of the Faculty, however. When the '87 men arrived at the hill they found '89 under the guidance of a blue-coated guardian of the peace and another who effectually squelched all indecorous behaviour. After cheering '89 three times, the '87 men returned to Lincoln Square and their respective hotels as the
The data collected by statistician Bigelow, and read by him at the Class-day exercises, furnish some very interesting facts connected with the class, which will no doubt be appreciated by WPI readers. It appears from these statistics that the class has had 57 men connected with it during the three and a half years of its existence. Of these 57, however, only 34 have passed unscathed through the fiery furnace. The remaining 23 didn't evince decided aptness for mechanics, and so, or for other reasons too numerous to mention, left for a more attractive climate. Both '87 and '88 graduated 60% of its members. Eighty-Nine graduates 59.5%. Since 1883 the per cent. in this particular has been steadily rising and '89 is the first class to drop back. If the succeeding examinations can be judged from this June's, however, it is quite probable that the per cent. of '90 and '91 will keep up this fascinating movement towards the zero limit.

The oldest man in the class is Penniman. He first saw the light of day 25 years and 6 months ago. “Jim” Baylis is the baby — only nineteen summers have passed over his youthful head. In this respect he is three years below the average age of 21 years and 8 months.

When “Ike” Rheutan comes to a doorway less than 6 feet in height, he has to stoop in order to avoid a collision with the top of his head. Hadley, on the contrary, can go through an alley-way 5 feet 3½ inches in height without making persons think that he has a crook in his back. The average man shoots up into the ether to a height of 5 feet 7½ inches.

Solon Bartlett is the boss heavy-weight of the crowd. When he drops a nickel into the slot of a weighing machine, he gets more for his money than any of his associates. One hundred and seventy-five pounds is about his size, which is 35 lbs. heavier than the average weight of 140. Bigelow is the champion light-weight of the team. When in strict training he puts only two 50-lb. weights on the beam of the Fairbanks scales at the shop, and pushes the sliding weight along to the 16-lb. notch, which is far enough to get a truthful balance.

Nearly every man in the class has his regular Sunday night girl, and it goes without saying that he sees her several other nights of the week also. About 11 P. M., as they are about to part at the front door or front gate, as the case may be, 18 of these wicked '89 men give their girls the pleasure which only a full-grown, resplendent mustache can give. Three are not satisfied with this alone, but must needs raise “side-boards.” At different periods of their lives, when they were immature and foolish and didn't know exactly what they were doing, 16 men have made hideous pictures of themselves by appearing in full beards.

Bartlett has hard work breaking in anything less than a 7½ hat. Most of the men are satisfied with 7.11, and “Skimpy” Leland lets his brain throb back and forth inside of a 6½ Dunlap. When it comes to putting on collars, Solon is leading by a full neck. He wears a 16-inch Earl and Wilson. The average size is 14.8. Four men, Ball, Baylis, Southgate and Smyth, ask for 14 inch, which is the lowest size. Bartlett leads in respect to shoe leather, also. He wears a number 10. Bigelow and Baldwin move about comfortably in a 4½, but the average '89 man has to waste lots of good blacking on a number 6½.

“Banty” Desper has put the shot so much that he has spread out his hand and is obliged to call for an 8½ glove. This honor is not wholly his own. Smyth ties him at the same size. Baylis, Rheutan, A. I. Gardner and Putnam can squeeze their own and somebody else's hand with a number 7. The average is 7.62.

When Eighty-Nine was old enough to go out riding in baby-carriages under the protecting care of their nurses, prominent citizens used to stop before 13 of these perambulators and remark: "What beautiful blue eyes that child has!" Six of the babies had blue orbs, though, and 4 ran their dimpled firsts into the brown variety.

Only 2 men have the genuine black eye, meaning by “genuine,” one produced by means not artificial. Five have hazel eyes,
one has a dark gray and blue, mixed, another bluish gray and one poor unfortunate sees the world from soul-windows tinged a blue or bluish-yellow, bordering on the black, with pearly lustre. "Dutch" did it, probably.

Several members of the class have had their hair cut during their three years' course at the Institute. On such noteworthy occasions, brown hair was swept out from under the chairs of 11 of the men. Light brown hair is good enough for six, and two are quite pleased with dark brown. Three have curly locks of a light brownish-black color, and one puts pomade on a head of blackish-brown. Two men call their hair "auburn" and one is brave enough to say "red," but all three blush and feel silly when a white horse comes along. One poor fellow hasn't any distinguishing color to his hair, and another isn't satisfied with one solid tint, but must needs mix together a light brown and a tow color.

When it comes to smoking, it hits 21% of the class right where they live. They will smoke anything from clover seed to chewing tobacco, and at all hours of the day and night. Fifteen per cent. admit that they buy La Normas and Sweet Caporals once in a while, but they don't go in for them as a steady diet. When the remaining 64% go to ball-games and the youth who sells peanuts, cigars and cigarettes asks them to purchase his wares, they shake their heads and mournfully refuse. Statistician Bigelow neglected to ask these 64% men if they were partial to sweet fern or cubs.

When Sunday comes, 15 fellows put on white ties and patent leather shoes and seek out Congregational churches. Six take water in theirs and cling to the Baptist faith. Five enjoy dancing and lively church fairs as Unitarians, and two are Roman Catholics. The Methodist denomination claims only one, and one is a Free Thinker. One is a Disciple of Christ. Three have no preference whatever.

Most of the class are voters, or will vote soon, and 26 will cast straight Republican ballots. Only four pin their faith to Dave Hill and "Grove." One is very exclusive—he is an "independent Republican." Another is a "free-trade Republican." Still another reads the editorials in Harper's Weekly and thanks his lucky stars that he is enlightened enough to follow the mugwump procession.

Allen is the most popular man in the class. He has 11 votes. Penniman has 6, Bigelow 6, Kimball 3, Baylis 2 and Hadley 1. Penniman was voted the smartest man. He had 11 votes. Allen is a close second with 9, Bigelow had five, and Bartlett, Gomes, Hartwell and Stowe one each.

It is awfully funny to look over the vote for "favorite author." It seems that it has been customary for one '89 man to go to a news-stand down town and inquire:

"Have you 'Blear-eyed Bob, the Howling Terror of Smoky Gulch'?

"No, that is all sold out."

"Is that so? Well, give me 'Screeching Sal, the Singing Seminole of the South Sea.' Mayne Reid is my favorite author, and I can't rest easy without one of his books under my pillow."

Eleven men think that Scott is about right. Howells, Reade, Jules Verne, Longfellow, Dickens, Victor Hugo and Bayard Taylor have two supporters each. One delights in "Uncle Tom's Cabin" and Lew Wallace, and another likes Holmes. (Is this Mary Jane or Oliver Wendell?) One likes Washington Irving pretty well, and still another swears by "Remsen." Remsen, Remsen? Who's Remsen?

It must have been worse than pulling teeth for the boys to tell Myron Bigelow what studies they liked best. The general impression has gone out that Eighty-Nine didn't like any study at all, but this proves to have been unfounded on fact. Six like to fool around test-tubes and beakers. Three think electricity is about the stuff for them, and three also are stuck on French. Three grow fat on mechanics and two each on descriptive geometry, calculus and English. One is bold enough to say he prefers German, and the nine remaining bet their last cent on geometry, physics, analyt. history, geology, steam engineering, natural history, medicine and "nature."

Eighty-Nine is apparently well-fixed in the musical line. Four play the guitar, eleven the banjo and eleven the piano. One man plays the cornet and another the kazoo. One plays both the guitar and banjo. Another gets music out of a violin and harmonica. Another thumps the piano and banjo, and uses his spare wind on the octa-
The flute and harmonica claim one poor fellow for their victim, and the peace of another neighborhood is disturbed by the windy sound-waves of a flute and piccolo. One talented youth doesn’t go in for pianos or guitars, but imagines he is pretty fair on pigs in clover.

The most popular professor is Prof. Sinclair. He has eleven votes. Prof. Kimball has 7, and Dr. Kinnicutt 6. Prof. Smith has 3, Prof. Alden 2, Dr. Eaton and Profs. Gladwin and White 1 each.

The “laziest man in the class,” so 12 say, is Armstrong. Roger Gardner has 7 votes, and his brother Irwin 1. Andrews and Gomes have two each and someone also voted for Daesen.

The boys were not sounded on the drink question, but we of Ninety know that most of them prefer common, every day, wet water, with a slight leaning to pink lemonade.

---

**THE ATHLETIC HISTORY.**

**What Eighty-Nine Has Done in Tennis, Football and General Athletics.**

The connection that the class of ’89 has had with the Athletic Association of the school has been long and varied. Dating as it does from the Prep. year, where it began in an unprecedented manner, it ended with the grand consolidated base-ball game which took place on the afternoon of June 18. The interval has been dotted with performances which have been exceptionally brilliant and the class has left behind it a record of which it may well be proud. The work of the class may be divided under four heads: lawn tennis, foot-ball, base-ball and general athletics. A brief review of the work of the class in these four departments is given below.

**LAWN TENNIS.**

Since ’89 entered the school there have been three lawn tennis tournaments. In the fall of ’86 the first occurred, and ’89 made her bow to the Tech Tennis Association. Her representatives were not able to obtain a prize, however, as the class of ’88 was on hand and her competitors won them all. Such players as Cushman, Myers, Nelson, Chadwick and Chittenden were too much for the then feeble-handed Juniors, and their first season’s record was a blank.

In the following fall however, ’89 succeeded in claiming one of the winners of the second prize in the doubles. This honor was won for them by Nelson, who played with Myers, ’88. It was in the last of the three tournaments, however, that ’89’s best showing was made. She entered six men out of twelve in the singles and three pairs out of eight in the doubles. Southgate, Harriman, Kimball, Houghton, Sessions and Allen were her representatives in the singles, and Allen and Kimball, Baldwin and Houghton, and Harriman and Sessions in the doubles. Kimball won second place in the singles, and Allen and Kimball won the school championship in the doubles. So much for tennis.

---

**IN FOOT-BALL.**

In foot-ball ’89 has always been prominent and has produced some of the finest players that have ever left the school. In the fall of ’86 the school had no organized eleven and ’89 took no active interest in the sport. In the fall of ’87, however, the interest was very great and ’89 was represented on the school eleven by White, who captained the team during the whole season, Penniman, who managed the team during the same time, and Allen, Gilbert, Bartlett, George and “Brown.” With six men on the eleven, including the captain and manager, ’89’s value to the foot-ball team is readily seen. During this season all but White, who played full-back, were in the rush-line. The class also made a good showing in the class series, finishing second to ’88, being unable to defeat the giants of the latter class. The fall of ’88 found ’89 again in the field and to the fine work of Allen, at quarter-back, and Gilbert and Bartlett in the rush-line is due to a great degree the showing made by the eleven during the season. The team was again managed by Penniman during this season. In the class series ’89 was defeated by ’90 in a sharp contest by a score of 4 to 0. In this game none of the class representatives on the school team were allowed to play, and thus the real merits of class strength cannot be judged.
THE BASE-BALL HISTORY.

The record of '89 at base-ball has not that brilliant hue which is so prominent in its other athletic work. In the spring of '86 it entered a team in the contests for the class championship which made a very creditable showing for a Prep. team, and, while it did not win a game, the class was given the credit of producing the strongest team that had ever been placed in the field by the Apprentice class. Its best game was with '86, by whom it was barely defeated, score 14 to 13. The following spring the class games were not given much attention, as all the base-ball interest was in the school team, on which '89 was represented by Allen, Hartwell, Cook and Clifford. The season of '88 began with a defeat for '89 at the hands of the Academy team and during the entire spring only one game was won by them, and that from the Preps. by the very close score of 21 to 19. The season of '89 was the worst of the four, '89's team not winning a game and being defeated by every team in the school, besides their defeat by the Academy at the beginning of the season. The game from '91 during the spring of '88 was the only game won by the class during its connection with the Institute and with a record of one game won and twelve lost the record of '89 at base-ball can well be laid aside. The poor showing made by 89's class team is due wholly to its poor team work. The class contained several individual players who were all excellent base ballists, among them being Hartwell, Allen, Hadley, Marshall and George.

GENERAL ATHLETICS.

In general athletics the class of '89 has never been excelled but once. The class of '88 holds the best Institute record in this respect, and to them '89 is a good second. Ever since its first connection with the school, the class has been prominent in this line and at every field meeting which the association has held, her athletes have been well to the front. At the time '89 entered the school, no Prep. class had ever won an event at a Tech field meeting, but '89 broke the ice, Harriman winning the ¼ and 1 mile bicycle races. At the fall meeting of '86, Bartlett won the mile run in 5 min. 12½ sec., breaking the Institute record; Gilbert was second in both the 1/4 and 1 mile bicycle races; Allen was second in the 220 and 440 yards dashes; George Kimball was second in the 100-yards dash, and Bartlett was second in the ¼-mile run. The spring of '87 was still better. Allen won the 220-yards dash in 23½ sec., making a record, and was second in the 100-yards dash; White made a record in the 440-yards dash in 58½ sec. and won the half-mile run; Mills was second in the quarter, and Andrews second in the running broad jump; Bartlett again broke the mile record, winning in 5 min. 11½ sec. During the Middle year the class continued to improve, and at the fall meeting in '87 was still more successful, winning 6 first and 8 second prizes, and breaking 2 records. Bartlett won the mile run in 5 min. 1 sec., and for the third time broke the school record in this event. Southgate was second to him at this meeting. Bartlett also won the ¼-mile, Barnes being second. Allen won the 100-yards dash, with Mills second, the two changing in the 220, Mills winning with Allen second. Mills also won the quarter-mile run in 54½ sec., breaking another record for the class. White was second in this event. Sessions won the pole vault, and was second in the standing high jump. Desper was second at putting the shot, and A. B. Kimball at the 120-yards hurdles. The following spring the class won 6 events and 7 seconds, but broke no records. Bartlett won the mile run for the fourth time, Southgate being second. He also won second in the half, White, his old classmate, winning the event and breaking the school record, but White's work was not for '89, as '90 then claimed him. Harriman won the ¼ and 1 mile bicycle races. Mills took the quarter, and was second in the 220-yards dash. Allen was second in the 100-yards, Sessions won the standing high jump, and was second in the pole vault, Marshall winning the latter event for '89 for the first time. Andrews was second in the running broad jump, and Desper in putting the shot. Last fall the association held no field meeting on account of a popular feeling against it, and '89 was thus deprived of a chance to show her powers, but in her final showing at the meet of last spring, the class did its best work, winning 8 events, and taking
second in 2, besides breaking two records. Mills was first in the 100, 220, and 440 yards dashes, breaking the record in the 100-yards in 10½ sec., and also in the quarter-mile, doing the distance in 54½ sec. Harriman won the ½ mile bicycle race for the third time since his connection with the school and also won the 2-mile bicycle, making his sixth race won. Marshall won the pole vault, Andrews the broad jump, and Bartlett, throwing the hammer. Bartlett was also second to Taylor, ’91, in the mile, Taylor breaking the record which Bartlett had already made and broken three successive field days. Allen was disabled and could win nothing at this field day, but was second in the 220-yards dash. Desper won his usual prize, 2d in putting the shot.

The above is the record of the class only at W. P. I. field meetings, held at Agricultural Park, under the auspices of the W. P. I. A. A., and, while it does not equal ’88’s record, it is very creditable work. The class of ’88 won 56 events, was second in 39, and broke 22 records, while ’89 won 27 events, was second in 27, and broke 8 records. This record does not include the work of the class in the tug-of-war, nor in the intercollegiate contests. In individual work, Bartlett, Mills, Harriman and Allen easily lead all others and make a quartette that the school will wait a long time to see equalled in ability. Marshall and White would undoubtedly have made equally as good records as the four named, had they been with the class during the whole course, but White joined ’90, and Marshall did a good share of his work with ’88. Below is given a summary of the individual work of the class for the six field meetings in which her members participated:—

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bartlett</td>
<td>6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mills</td>
<td>6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Harriman</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allen</td>
<td>2</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>White</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sessions</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Marshall</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrews</td>
<td>1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Desper</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southgate</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gilbert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimball, A. B.</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kimball, George</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Barnes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>27</td>
<td>27</td>
<td>8</td>
</tr>
</tbody>
</table>

During her Prep. and Junior years ’89 thought the rope a little too hard and rough for her hands in the tug-of-war and entered no team, but at the beginning of the Middle year Bartlett selected George, Hathaway and Gilbert as members of a team of which he himself was captain and anchor, and since then, during the Middle and Senior years, of the class, the team has never been beaten in a school contest, winning the event twice in the Middle year and once in the Senior year. George was not in the school during the Senior year and Savvy was substituted in his place on the team. In the two intercollegiate contests in which ’89 has taken part she has won 2 firsts and 7 second prizes out of a total of 4 firsts and 8 seconds won by the school. In the first contest in the spring of ’88, Allen won the 220-yards dash in 23½ sec. and was second in the 100-yards dash. Allen’s time broke both the Tech and intercollegiate records and although the time given out for this year’s race was better, it will not stand on account of the inaccuracy of the course. Marshall was second in the pole vault, but vaulted 9ft. 6in., thus establishing another Tech record, and Harriman also, though second in the 2-mile bicycle race, made the Tech record of 6 min. 51½ sec. At this year’s meet no records were broken, but ’89 was still at the front with her winners and Marshall won the pole vault, Mills by good work won second in the 100, 220, and 440 yards dashes and Harriman was again a close second in the 2-mile bicycle race. At both meetings Bartlett’s experience with ’89’s tug-of-war team helped the school to a good showing and he closed his successful career on the cleats with the team which he captained at the last intercollegiate contest. The class as it leaves the school leaves behind five records, one of which, the 220 yards dash record, is an intercollegiate record. They are as follows:—

100-yards dash, Mills, 10½ sec.
220-yards dash, Allen, 23½ sec.
440-yards dash, Mills, 54½ sec.
Pole vault, Marshall, 9 ft. 6 in.
2-mile bicycle, Harriman, 6 min. 51½ sec.

The remembrance of such records as these, made in the well-earned hours of recreation, which occur none too often in a three years’ course in our school, may sometime be a source of pleasure to those
who may chance to review them, and though
some may think the hours misspent, others
may well believe that the benefit gained by
participation in the athletic games of the
college of the present day will make itself
known in the greater strength of body in
after life. May the members of the class
of '89 be as successful in the achievement
of high honors in the pursuits for which
their three years of study in the Worcester
Tech have prepared them as they have been
in the field of sport.

AT THE SCHOOL.

Much Excitement Over the Unexpected Results
of the Examinations.

Boynton Hall is deserted and spiders are
spinning long webs through the corridors
and around the steam pipes. Now that the
new building has been fairly started, many
of the old rooms have been cleared and
look decidedly vacant and forlorn. The
old chemical laboratory on the first floor
would hardly be recognized. The floor has
been cleared of all the tables, and the
bottles and other paraphernalia moved to
the fourth floor of Salisbury. Professor
White will occupy this room next year with
his classes in civil engineering. Prof.
Kimball's former quarters are as empty as
John Hurley's cider jug. What was the
balance room on the second floor is to be
used with the opening of the fall term for a
storage room for mineralogical specimens.
No disposition has as yet been made of the
vacant rooms remaining. The Young
Men's Christian Association of the Insti-
tute has made formal application for a
room in which to conduct its religious work,
and the W P I, also, has made a modest
request for a sanctum in which the ex-
changes can be filed and the copy prepared
which does so much in advertising the Insti-
tute and giving it recognition among the
undergraduates of other schools.

When the marks were given out a week
or so before Commencement, the utmost
consternation prevailed for several days
and rumors of the wildest description were
prevalent. It was alleged that Prof. Kim-
ball had conditioned 31 out of 42 Juniors
in physics, and more than half the Middle
class. It was stated that the Juniors had
lost seven men and the Middlers, three.
The foot-ball eleven, so they said, had been
quite blotted-out. Upon investigation,
these rumors were found to be untrue.
There were but twelve conditions in physics
in the Junior class and a still less number
among the Middlers. The eleven has lost
but one man. There was considerable hard
feeling among the boys concerning the
physics conditions. It seems that, in the
Junior class, the work has been split up
among three different instructors. At the
most, four quizzes only have been held dur-
ing the whole half-year. In the Middle
class, Prof. Kimball has delivered all the
lectures and has had, perhaps, two oral
examinations and one "snap" written this
term. At the examination, the Middlers
were examined only on magnetism and elec-
tricity, although the subject of light was
also a part of the half-year's work. The
paper, though a good test, was not particu-
larly difficult, and was generally acknowl-
edged to be perfectly fair. A short time
after the marks had been announced, it was
said that Prof. Kimball had relented and
was going to call in his conditions. This
is also untrue. The conditions "go," but
it is understood that fair work next year
will fix things all right. Four Juniors were
dropped, and two Middlers. Some of
these may get back next fall by making up
conditions before then. Five Preps. were
also dropped.

The Spy of Tuesday of last week spoke
of the marking system and two or three
other things connected with the Institute,
in a news article, and President Fuller
states that the situation is overdrawn and
that one statement, at least, does not come
up to the standard of truth. "At the end
of the Senior year there is supposed to be
no such thing as a condition, but one of
the present class received two conditions,
has arranged them with the instructors, and
will graduate." There is no authority for
this. In years past members of the gradu-
ating class have been conditioned at their
final examinations and have not been
allowed to graduate until such conditions
were made up. This year it was simply a
question of the conditioned men doing the
prescribed work of the course. They did
not do it, were conditioned and finally, by
doing it, removed the conditions.

The examinations demonstrated one thing:
that, even if the ranking system was abolished, there is to be no let-up on scholarship. This is all right. Nobody is kicking about this. We can stand anything but being "ranked."

---

**AT THE SHOP.**

*Work Enough to Keep Everybody Busy All Through the Summer.*

Things are quiet at the shop now that most of the Middlers and Juniors have finished their extra practice. A few enthusiasts are industriously toiling, and Mr. Mitchell breathes deep sighs of relief when he thinks of the Senior lathe, completed. Foreman Walls is nursing a badly-bruised finger received in setting up the elevator at Salisbury, and Fred. Knight spends his spare moments in sharpening lead-pencils with which to check off the extra practice time of the W P I editors, when they begin work about the 8th of July. O, you fortunate mortals who have received your checks for 168 hours and departed for the seashore and mountains! Think of us when we are knocking around among the castings! Think of how we have ground out copy to fill the "comp's" insatiate maw, and think of how we have slaved generally to fill 48 columns with an account of last week's Commencement! Think of these facts and don't be so awfully slow next year in paying your subscriptions.

The shop has received orders for three new elevators: a short run elevator for Burns's block in Salem Square; a 25-ft. run freight elevator for Bowler Bros., and another for West, Stone & Co., of Springfield. This work, together with the drawing stands recently ordered by Prof. Alden, will keep the wheels moving during July and August.

---

**JUST TO FILL UP.**

*These Items Were Left Over from Last Month, But They've Got to Go.*

The withdrawal of Ed. Frary from the school robs the chapel organ of a talented player, and the loss is felt deeply. There is no better time than the present to make a change with regard to chapel music. A smart, windy child with a good-sized harmonica would be a deadly rival to the organ in its present condition.

When a '90 man has graduated and goes around looking for a position as draughtsman, it will be well to lay low when the prospective employer asks what you have done in the line of mechanical drawing. It might weary him considerably to hear that you worked a whole half year, six hours a week, to complete an engine-lathe headstock.

T. E. N. Eaton, Ph. D., of Worcester, Mass., family and friends have arrived in the valley and are on the camping grounds. Prof. Eaton is Professor of Mathematics in the Worcester Polytechnic Institute and is off on a year's rest. His party came from Fresno here in a private vehicle and they are enjoying themselves. He and family are making a tour of the coast. The party is composed of Prof. and Mrs. Eaton, Master George and Miss Grace Eaton, Miss Mary H. Warren, all of Worcester, Mass., and G. D. Harris, of Redlands, Cal.—*Yosemite Tourist.*

A Fable. In the Washburn Shops there once worked a student who had a thick growth of whiskers, which he nurtured with a great feeling of pride and vanity. In the course of time it transpired that he let them grow to such an extent with a view to raising his personal mark. One day, while he was at work on a fine piece of machinery, the wind came in at an open window near him, and blew through his whiskers until they spread out and completely covered his bench. "Ah!" said an instructor, who was carefully watching him, "there is a student who is trying to hide his poor workmanship. I will jump on his neck." He then did so, and the student was deeply chagrined. "Woe to me," said he. "Where I had counted on an A, I am now certain of getting a D." And subsequent developments conclusively demonstrated the soundness of his reasoning.

This fable teaches that one's personal mark does not depend on the length of his whiskers, and that it is of importance to occasionally squander ten cents on a shave.
DAVIS & COMPANY,
286 MAIN STREET, 286
—DEALERS IN—

Fine: Ready-Made: Clothing,
Stylish Garments for Young Men a Specialty.

Those who prefer garments made to measure will find us prepared at all times to show seasonable goods of all grades and prices.


DAVIS & CO.,
Opposite Bay State House.

WRIGHT & DITSON.
WORSTED SWEATERS, JERSEYS AND TIGHTS.
BASE BALL, FOOT BALL AND LAWN TENNIS OUTFITS.
580 WASHINGTON STREET,
BOSTON, MASS.

Send for Catalogue.

WORSTED SWEATERS, JERSEYS AND TIGHTS.
BASE BALL, FOOT BALL AND LAWN TENNIS OUTFITS.
580 WASHINGTON STREET,
BOSTON, MASS.

Send for Catalogue.

The Richmond Straight Cut No. 1 CIGARETTES

are made from the brightest, most delicately flavored, and highest cost GOLD LEAF grown in Virginia. This is the OLD AND ORIGINAL BRAND OF STRAIGHT CUT Cigarettes, and was brought out by us in the year 1875. Beware of Imitations, and observe that the FIRM NAME, as below, is on every package.

ALLEN & GINTER, Manuf.,
RICHMOND, VIRGINIA.

BIGELOW & LONGLEY,
CORNER MAIN AND ELM STREETS,
Fall of 1888.

Each season shows a marked advance in the quality and style of

Young Men's Ready-Made Garments.

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

THE NOBBIEST SUITS

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

IN OUR CUSTOM DEPARTMENT

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

BIGELOW & LONGLEY,
Corner Main and Elm Streets.
SANFORD & COMPANY,
No. 364 MAIN STREET, WORCESTER, MASS.,

DEALERS IN

Drawing Materials of Every Description.

SUPERIOR SWISS DRAWING INSTRUMENTS.

Whatman's Drawing Papers, all sizes, hot and cold pressed. Roll Drawing Papers, both plain, and mounted on muslin; all widths and qualities.

Prices as Low as Consistent with

STRICTLY FIRST-CLASS GOODS.

W. F. GILMAN, D. D. S.,
DENTAL OFFICE,
11 Pleasant St., Worcester, Mass.

ODD FELLOWS' BLOCK.

BAY STATE HOUSE.

Under the new management this Hotel has been thoroughly reorganized and will be conducted on a

First-Class Basis

In every particular. We solicit a trial of our hospitality.

DOUGLASS & BROWN,
Proprietors.

HENRY WALKER,
DEALER IN

FURNITURE,
Carpets, Stoves, Ranges,

AND

House Furnishing Goods of all Kinds.

225 and 227 MAIN STREET,
WORCESTER, MASS.

BARNARD, SUMNER & CO.,
327 and 329 MAIN STREET, WORCESTER, MASS.

DRY GOODS AND CARPETS,

"ALL THE YEAR ROUND."

Departments Full, Fresh and Attractive. Popular Low Prices maintained on all Goods. No Store Under-sells us in this City or Boston. No store shows a Finer Selection. Samples sent with Prices, and Parcels Forwarded by Mail at Trifling Cost. MADAME DEMOREST'S PATTERNS. We have greatly Improved our Store by New Departments. Better Room and Light, and more Popular and Quick Selling Bargains every Season.

To facilitate afternoon shopping, our Store is Lighted by Electric Lights.
PUTNAM, DAVIS & CO.,
FINE STATIONERY, VISITING CARDS,
NOTE BOOKS AND SCHOOL SUPPLIES.
389 MAIN STREET, - - WORCESTER.

J. K. BROWN,
FINE BOOTS & SHOES,
16 Front St., Worcester, Mass.

N. S. LISCOMB,
HATS, CAPS, MEN'S FURNISHINGS,
Furs, Trunks, Bags, &c.
WALKER BUILDING,
407 Main Street, - WORCESTER, Mass.

“ADVICE GRATIS!”
Buy your
DRUGS: AND: MEDICINES,
Perfumes, Cigars, Cigarettes,
HOT AND COLD SODA,
A
d anything else you may want, of
Geo. E. Fairbanks,
DRUGGIST,
No. 10 Front Street, - WORCESTER, MASS.

SIGN OF THE BLACK BEAR.

Estate of
J. L. BURBANK,
Successor to
M. B. Green & Co.,
APOTHECARY
And Dealer in Drugs, Patent Medicines, Perfumery, Etc.
376 Main Street, Corner of Elm, Worcester, Mass.
H. L. FISK, Manager.
Physicians' Prescriptions a Specialty.

REBBOLI,
CONFECTIONER
AND
CATERER,
6 AND 8 PLEASANT STREET.

WASHBURN MACHINE SHOP,
WORCESTER, MASS. M. P. HIGGINS, Superintendent.
FINE CLOTHIERS AND CUSTOM TAILORS,
409 MAIN STREET.

A special feature of our stock at this time is a very nobby line of

SPRING OVERCOATS AND SUITS FOR YOUNG MEN. AT PRICES RANGING FROM $8.00 to $25.00.

TOM WALTERS, Jr.,
175 MAIN STREET.

Party and Evening Dress Shirts to Order.

TRY ONE OF MY DOLLAR SHIRTS.
FULL LINE OF Jerseys, Base Ball Bats and Tennis Racquets.

Uniforms Furnished the Apprentice Class.

CHEMIST'S DEPARTMENT.—Aprons, whole or half sleeves, made from any material.

Athletic Suits to Measure, and full line kept in stock.

AGENT FOR LAUNDRY.