

Fiftieth
Anniversary

TECH NEWS

1865-1915

SPECIAL ANNIVERSARY NO. 2

WORCESTER, MASS., JUNE 10, 1915

PRICE, TEN CENTS

Alumni Field Dedicated Gates Presented to School

Professor Coombs Remembered

A rainy morning forecast a dull dedication ceremony for the formal presentation of Alumni Field and the Class of '87 gates, Tuesday. Just before two, however, the clouds broke; and the sun came out to beam most cordially upon the first public portion of Tech's fiftieth anniversary.

Delegates, faculty, alumni, and students gathered at Boynton Hall; and marshaled by Professor Coombs and led by the Salem

Impressive Exercises in Mechanics Hall

Excellent Speaking Makes Yesterday Morning Meeting a Success

Before a capacity audience of 1,930 persons, Tech formally commemorated the Fiftieth Anniversary of her founding in Mechanics Hall yesterday morning. It was a great disappointment to learn that at the last moment General Goethals, who was on the program as one of the

Commencement Exercises This Morning

Ninety-three B. S. Degrees Conferred by President Hollis

At Commencement Exercises in Tuckerman Hall this morning, diplomas were awarded to the class of 1915. At the same time, theoretically, the three lower classes each moved up one place, leaving the Institute without a freshman class until registration next September. No formal "moving-up day" ceremonies were observed by the lower classes as is customary in many colleges.

At 10 o'clock the seniors, together with the faculty and instructors, gathered at Boynton Hall for the academic procession down to Tuckerman Hall, in the Woman's Club building, where the graduating exercises were held. Accompanied by the junior marshals, the procession presented an impressive appearance as it entered the hall and the seniors marched down to their seats in the front.

After the preliminary music, Rev. Allyn King Foster delivered the invocation, and the address of the morning followed at once. Dr. Richard C. Maclaurin, president of M. I. T., delivered a very able talk on the subject of "The Profit from Education."

He said that with this great world war, the awful destruction of life and property will put America relatively forward, and it will not be easy to keep the lead. Constant alertness and careful training will be necessary. He also dwelt on the fruits of the labors at W. P. I. These he enumerated as knowledge, saying that it was the fundamental principles and not the

Wilson Unable to Come Complications in War Troubles Cause Change of Plans

It will be a matter of regret to all that President Wilson has found it impossible to attend Tech's Fiftieth Anniversary. For a time it was hoped that the weight of public responsibility would lighten sufficiently to allow the President to make a flying visit to Worcester. However, since the sinking of the "Lusitania," and other complications in the European situation, President Wilson has been forced to give up many of his plans, including the visit here.

Especial interest has been felt about the President's participation in the Fiftieth Anniversary, since he was the Commencement speaker just twenty-five years ago. That his reputation was even then well-established is shown by the following extract from the "W. P. I." for July, 1890:—"Hon. P. Emory Aldrich then introduced the orator of the evening, Prof. Woodrow Wilson, Ph. D., who delivered a most able and interesting address on 'Modern City Government.' The subject is a practical one, and was handled by a master. Owing to the vastness of the subject, only a framework of it was attempted, but so deftly did he handle it that at the close a finished story was in the mind of each one of his hearers." Tech is surely sorry not to be able to greet the scholar-statesman again as President of the United States.



Presentation of Class of '87, Entrance Showing Prof. Coombs Receiving Roses from Seniors Photo by C. Hollerith

Marine band, marched to the gates of Alumni Field. The formal presentation of the entrance was made by E. F. Miner, president of '87, and the tablets were unveiled by Harry Worcester Smith. The keys of the field were then given to Hon. Charles G. Washburn, representing the Institute, by George I. Rockwood, president of the Alumni Association. Prof. Levi L. Conant introduced Professor Coombs, who began his talk only to be interrupted by R. H. Russell, president of '15, who presented him with a bunch of roses from the graduating class in commemoration of Professor Coombs' fiftieth birthday. A gold watch was presented to Professor Coombs from the instructing force.

After Professor Coombs had completed a brief speech, the assembly marched through the gates and down the field to the baseball diamond.

SKULL SOCIETY HOLDS REUNION

The members of "Skull," the senior honorary society, held a reunion at the Bancroft Tuesday evening, following the reception by President and Mrs. Hollis. Many of the alumni members have returned to Tech for the anniversary celebration and were present at the occasion.

The members of the society from the Class of 1915 are Frank Aiken, Howard C. Barnes, Arthur R. Cade, George S. Atkinson, John H. Conneen, Edwin T. Warren, Merton L. Haselton, Robert H. Russell, Ralph H. Crippen, and Myron M. Smith.

speakers of the day, had received a telegram, the day previous, containing a summons to the Indianapolis courts this morning on a government investigation. Nevertheless, the exercises were impressive, the addresses were admirable, and the semi-centennial was fittingly celebrated.

The academic procession formed at the Bancroft shortly after ten and marched down Main Street to Mechanics Hall. The line was headed by Chief Marshal Z. W. Coombs, whose untiring efforts during the past six months have been crowned with the satisfaction of a most successful Anniversary week. Following in order by twos were Hon. C. G. Washburn, President of the corporation and Pres. J. A. Brashear of the A. S. M. E.; President Hollis and Rev. Shepherd Knapp of the trustees; Mayor Wright and President Rockwood of the Alumni Association; George I. Alden, of the trustees, and President Lowell of Harvard; Mr. Stratton of the trustees and Admiral Griffin, of the Navy; T. E. Wilder of the trustees, and President Howard Elliot of the N. Y., N. H., & H. R. R.; Rev. A. K. Foster of the trustees and Mr. Judge; L. N. Kinnicut, of the trustees, and Congressman Winslow; Mr. Baker, of the trustees, and Samuel Green, one of the original committee. Following in order were the delegates from the scientific and engineering societies and from the educational institutions, and then the faculty, instructors, former professors, and seniors.

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Forty-first Annual Reunion

Alumni Hold Banquet and Meeting in E. E. Laboratory

Today Tech graduates will sit down to banquet at the Forty-First annual meeting of the Institute Alumni Association.



The New Gymnasium

technical details that count; the acquisition of method; the possession of an ideal; and the formation of certain habits, the two which he mentioned being industry and the following of one's interests. He said that M. I. T. had been accused of working its students too hard, and he hoped that the same accusation had been made against W. P. I.

A meeting for the organization of this association was held in Boynton Hall, July 30, 1873, two years after the first class graduated. Edward F. Tolman, '71, who died five years ago, was elected the first president, and the first annual meeting was held in the Lincoln House, July 28, 1874. Since that time annual meetings have been held at various places, the

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THE DAVIS PRESS

BOOST TECH

Editorials

It is to be sincerely regretted that the condition of national and world affairs is such as to prevent President Wilson's presence with us at this time. He was with Tech men twenty-five years ago at the commemoration of the quarter-centennial, and in his present exalted position his presence would add the touch to make our celebration complete. But his is a difficult path at present, and we are glad to feel that he is ever at the helm that his every effort is directed toward the utmost welfare of the nation.

To the six seniors who through their faithful and capable efforts have won the distinction of winners of the seventy-five dollar prizes the highest praise is due. Men who by a unanimous choice of the committee in charge are deemed worthy of this honor will be men who, with little doubt, will in the future reflect honor on the school name. We wish them every success in their efforts in the future.

It is always easy for a school to become lax in its requirements. Tech is to be congratulated on its faithful maintenance of high standards during the half-century of its existence. As a result, the Tech diploma has always meant much; Tech graduates have never been too numerous to suit the world of business and engineering. When we see the high positions to which our Alumni have risen, we realize that the founders of Tech began a structure which must continue to increase in

loftiness and beauty during the host of years yet to come.

All too seldom during the hurry of our daily routine do we catch a fleeting glimpse of the true nobility of labor. The Anniversary Celebration, however, offers a wealth of inspiration to the student. Each of us should gain from the story of the old students' struggles and success, such encouragement and enlightenment as will render our next year's work far more enjoyable and inspiring.

Appreciative notes from the alumni similar to those printed in this issue are always gratifying, for they show that the efforts of the men who are putting many hours of work into the NEWS each week have not been in vain. If some of the graduates are enough pleased with the school publication to write about it, it seems reasonable to assume that many others also like it. The pity is that the alumni subscription list in the past has been so small. The paper has not been as effective in spreading the current school news among the body of alumni as it should be. With the NEWS included in many of the alumni pledges, however, a part of this difficulty will be removed, and we hope to have an ever-increasing list of alumni subscribers.

Many alumni have seen this week for the first time the result of their efforts, financially and otherwise, to provide Alma Mater with an adequate athletic field and gymnasium. What the opinions and emotions of this body as a whole are we, the undergraduates, do not know, but it seems little less than an impossibility that the product of their combined gifts is not satisfactory to a degree far above their expectations. They have had nothing but descriptions and pictures previously on which to base their estimates, and at best these can give no adequate idea of what Alumni Field is and what Alumni Gymnasium will soon be.

The field is one of the best in the country in the matter of construction, and its location is superb. In a natural amphitheatre, the wooded hillside of Bancroft Hill in the rear gives an excellent view, while the top of the hill toward the Institute buildings will soon be crowned with Alumni gymnasium. One unsightly place still remains.—the refuse heaps beyond the field at the north; and every effort should be made to correct this fault as soon as possible. The building is not yet in a condition to be judged, but the alumni may estimate from the depth of excavation and the foundation work which is completed that it will be all and more that the architect's drawing promises.

With the Alumni Dinner this afternoon and the Senior Banquet tonight, another Commencement will have passed, and Tech's Fiftieth Anniversary Celebration will be at an end. To the world, the commencement formalities mean nothing; merely another milestone in the infinite extent of time. To the men who are graduating, Commencement, while not everything, is still a very big red letter day in the calendar of their lives. It marks the point when they leave the paths of intellectual study and start on the road of world knowledge. Some may have already been living by their own wits, but even these are starting now in earnest with success as their goal.

The Anniversary has a bigger meaning, a meaning which has a great significance even to the world. Fifty years ago the Institute was merely an idea, which at that time was beginning to crystallize. Today her graduates assume a large part of the burden of the world's work which is allotted to the engineering profession, and when we celebrate our fiftieth birthday the world notes it with the proper respect. The sending of delegates from colleges far and wide attests our national and world reputation, and the press notices which will undoubtedly be printed throughout the country will spread our fame. May each succeeding fiftieth anniversary witness as much progress and be as fittingly commemorated as has been this, our first semi-centennial mark!

IMPRESSIVE EXERCISES IN MECHANICS HALL

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At Boynton Hall the underclassmen assembled at 9.45 and marched to Mechanics Hall, where a lane was formed, between the lines of which the academic procession marched on its way to the hall. Every seat inside was occupied and a number were standing.

After the invocation by Rev. Shepherd Knapp, President Hollis delivered the introductory address, giving a historical résumé of the Institute from its inception. President Lowell of Harvard was the next speaker, and he spoke about the training of the forces of nature, and the ability for this which education gives. He said that a fundamental requirement of education is to be familiar with one's age, and with the basic principles underlying it.

Governor Walsh, who was unable to arrive for the procession, came in at this time and was ushered down the central aisle.

After the governor's address, John A. Brashear, President of the A. S. M. E., delivered an address, and President Hollis called on Booker T. Washington, the noted negro educator, who in his forceful manner pointed out that this time is also the semi-centennial of the abolition of slavery.

COMMENCEMENT EXERCISES THIS MORNING

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The conferring of degrees followed. A total of 99 degrees were given out, 93 being B. S. degrees to members of the senior class, and six were advanced degrees.

The Hon. Charles G. Washburn, president of the Corporation, then made the annual award of the six prizes of seventy-five dollars to the six of the most meritorious students who have faithfully, industriously, and with distinguished attainments, completed one of the full courses. The seniors honored with these prizes were, Frederick Herbert Haggood, course in Civil Engineering; Carleton Deane Haigis, course in General Science; Roland Dyer Hawkins, course in Electrical Engineering; Clifton Perry Howard, course in Mechanical Engineering; Charles Buell Hurd, course in Chemistry; George William Smith, Jr., course in Mechanical Engineering.

Rev. Allyn King Foster pronounced the benediction, and the seniors marched out of the hall as Tech graduates.

A History of the Institute

By LEVI L. CONANT, Ph. D.

Professor of Mathematics at the Institute from 1891 to the present time

The beginnings of the Worcester Polytechnic Institute were of the most modest kind. It was originally chartered as a purely local institution; and its founders and early benefactors had little idea that it would ever become national in its reputation and contingency. The age limit for admission was at first set at fourteen years. This was raised to sixteen years and, about 1895 this limit was raised to seventeen years.

The name at first chosen for the new institution was "The Worcester County Free Institute of Industrial Science." Under this name the school began its work, and under this name it continued for twenty years. During that time there was a slow but steady growth; and students from an ever increasing area were attracted by the character of the work done here and by the success achieved by our graduates. It became evident that the school was ceasing to be a local institution; and a change in name was decided upon by the Trustees. At a meeting of the Corporation held October 16, 1886, it was voted to petition the Legislature for authority to change the name to "The Worcester Technical Institute." At the very next meeting held by the Trustees this matter was again considered and it was decided to drop the word "the"; and the petition, as presented to the Legislature asked for authority to change the name to "Worcester Technical Institute." On April 20, 1887 this petition went before the Legislature, but between that time and the granting of the petition, June 7, 1887, a further change was made; and the name finally determined upon was the present name, "Worcester Polytechnic Institute."

The growth in the number of students is something that is well known to all. The first class began work with fifteen members; though this number was afterward increased, and the actual number graduating in the class of 1871, the first class to receive its degrees from the Institute, was thirty-three. Ten years later, the total number that had belonged to the class graduating was forty-one. Ten years later, in 1891, the total number showed a registration of fifty-nine. The class of 1901 numbered eighty-eight. In 1911, the total had mounted to one hundred and seventy-four; and the largest class in the history of the Institute, the class which graduated in 1913, bore on its rolls the total number of two hundred and eighteen. Throughout the entire history of the Institute the number of graduates has always been about 50% of the total number registered with each class.

AT ANNUAL REUNION

(Continued from Page 1)

recent ones taking place on the spacious floor of the Electrical Engineering laboratory.

Covers have been laid for today's banquet for 650 alumni, and it is expected that nearly every seat will be taken.

President Rockwood of the general alumni association will preside, and President Hollis, Hon. Charles G. Washburn, and representatives of the oldest class and some of the five year classes will speak.

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New Era in Athletics

Alumni Field Has Awakened a New Spirit

The "new era in athletics at the Institute"—one hears this on every side these days. Let us just stop and consider for a moment what this means—just how the new Alumni Field has helped to bring it about and of what it consists; for a new spirit has come into the life of Tech athletics and in place of the drudgery of athletics has come the sport of athletics.

The first sign of life we noticed was the unusually large squad that turned out for football. It took no very great amount of imagination at the beginning of the season to predict gloomy prospects, but "Jigger" Jones, nothing daunted, proceeded to develop a very successful team. The team won only one of its games—but that was "the" game. That one victory over Rensselaer, on the day of the opening of the new field, made up for the defeats handed us by Springfield, New Hampshire, Trinity, Union and Wesleyan combined. That 14-0 dedication of the new field with that howling mob of enthusiastic followers will go down in history as the real opening of Tech's new era—both from the point of view of athletics and from the attitude of the student body.

The fall Track Season was one of the most optimistic signs we have had. The fall Meet, an innovation this year, was the best kind of a success, bringing into light many men who have since proven valuable assets. To commemorate this date, the Tech record for the 220 was equalled when Ricker covered the straight-away course in 23 1-5 seconds.

The usual interclass cross country races went off on schedule, Francis '17 winning each of the three races over new courses, and consequently winning the silver cup. These races did not bring out the usual number of freshmen but the Track Meet more than evened up the deficit.

The cross-country team ran in two dual cross-country runs. One was in Providence against Brown and the other against M. A. C. at Amherst. Both of these were lost but, considering the fact that the men were travelling over a strange course each time, their record is very commendable. At the Intercollegiate cross-countries at Boston, Tech carried away eighth place.

The indoor track season officially started with the interclass relays. The class of 1916 won out for the second time, giving them two legs on the Class of '90 cup. At the Coast Artillery Meet the 23rd of January, Tech trimmed New Hampshire State with ease, and then repeated when the team walked away from Boston College at the Irish-American games. The big night was when they laid M. A. C. in the dust at the annual B. A. A. Games, at the same time establishing a new Tech record for the 1500 yds. of 3 min. 12 2-5 sec. The only team to break into the unbroken string of victories was Trinity, who won by inches on Feb. 19 at the Hartford armory. The following night the team took Tufts' measure at the Providence Armory meet. This was the most successful season the relay team has ever had.

When the first call for Baseball was sent out sixty candidates responded post haste. It took three cuts in the squad

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Many Delegates Present

Imposing List of Prominent Men Here for Celebration.

During the past week Tech has entertained guests from colleges in every part of the country. Even as far as Hawaii, a delegate was sent in the person of Prof. F. T. Dillingham, an old Tech man. Nothing can attest the importance of our semi-centennial more than the fact of this large list of delegates who have been present upon our invitation. This list follows, together with colleges represented, named in the order of their establishment:

Prof. George C. Whipple, of Harvard; Dr. Thomas Fell, president of St. John's College, and provost of University of Maryland, delegate from both; Prof. A. J. Du Bois, of Sheffield Scientific school, Yale; Prof. Frank H. Constant, of Princeton; Prof. Frederick A. Goetze, dean of Faculty of Applied Science, Columbia; Prof. W. H. Kenerson, of Brown; Dr. Charles R. Lingley, of Dartmouth; Prof. Hardy S. Cross, of Hampden-Sidney; Prof. Frederick L. Bishop, dean of school of engineering, University of Pittsburgh; Dr. Samuel B. McCormick, chancellor of University of Pittsburgh; Prof. J. W. Votey, dean of college of engineering, University of Vermont; Dr. Harry A. Garfield, president of Williams college; Dr. Edward Stanwood, of Bowdoin; Prof. J. E. Ostrander, of Union college; Dr. Guy E. Snavely, of Allegheny college; Dr. Harlan Creelman, of Auburn Theological seminary; Dr. H. Carrington Lancaster, of University of Virginia; Dr. Clarence Willis Eastman, Amherst; Dr. Arthur E. Childs, of McGill University; Prof. Henry A. Perkins, of Trinity; Dr. William P. Mason, of Rensselaer Polytechnic; Rev. George E. Horr, president of Newton Theological Institution; Dr. Otto Manthey-Zorn, Western Reserve University; Dr. Irving A. Field, of Dennison University; Dr. Walter G. Cady, of Wesleyan; Wilford E. Swift, of Haverford college; Dr. Mary Emily Sinclair, of Oberlin; Dr. Arthur L. Gillett, of Hartford Theological seminary; Dr. Samuel V. Cole, president of Wheaton college; Charles F. Binns, of Alfred university; Dr. Francis Brown, president of Union Theological seminary; Dr. Mortimer E. Cooley, of University of Michigan; Dr. Anne Sewall Young, of Mt. Holyoke college; Dr. Jay W. Hudson, of University of Missouri; Rev. John F. Brant, of Ohio Wesleyan university; Rev. Joseph N. Dinand, S. J., president of Holy Cross college; J. W. Yost, of Mt. Union college; Rev. Dr. James L. Hill, of Grinnell college; Prof. M. C. E. Ernsberger, of University of Rochester; Carey E. Melville, of Northwestern university; Dr. Hermon C. Bumpus, president of Tufts; Dr. J. Bruce Chittenden, of Brooklyn Polytechnic; Dr. William B. Scarborough, president of Wilberforce university; Dr. Charles F. Aikens, president of Susquehanna university; Dr. Frank H. Hankins, of Clark university, delegate from Baker university; Dr. Richard C. MacLaurin, president of Massachusetts Institute of Technology; Dr. George C. Chase, president of Bates; Frank A. Waugh, of Kansas State Agricultural college; Dr. F. A. McKenzie, of Fisk university; Prof. Fred W. Morse, of Massachusetts Agricultural college; Dr. R. E. Carpenter, of Cornell; John H. Barr, of Uni-

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SENIORS SECURE POSITIONS

Several members of the graduating class have already secured positions or have their plans laid for next year. Some of these positions and plans of 1915 men follow:

M. E. Department

G. S. Atkinson, with Factory Insurance Association, of Hartford, Ct.
H. F. Brown, with Wyman Gordon Co., of Worcester.
R. H. Crippen, with American Appraisal Co., of New York.
C. P. Howard, with Rockwood Sprinkler Co., of Worcester.
C. M. Lawton, with Norton Co., of Worcester.

G. W. Smith, with White Automobile Co., of Cleveland, O.

M. G. Steele, with American Refrigerating Co., of Hartford, Ct.

C. E. Department

F. R. Cox, with the Hassam Paving Co. of Worcester.

B. B. D'Ewart, with the Rockwood Sprinkler Co. of Worcester.

Frank Forsberg, with Philip Loff, '02, Consulting Engineer, New York.

F. H. Haggood, with J. L. Tighe, Consulting Engineer, Holyoke, Mass.

Everett Hutchins, N. Y., N. H. & H. R. R., under Paul B. Spencer, '02, Division Engineer.

G. W. Plaisted, with the Big Four R. R.

E. E. Department

P. W. Burgess, Graduate Assistant to Prof. H. B. Smith.

H. L. Cole, Research Division, Westinghouse Co., Pittsburgh.

The Tech Lunch

All Students Welcome

D. F. Miner, Graduate Assistant to Prof. H. B. Smith.

A. B. R. Prouty, Graduate Assistant in E. E. Dept.

W. W. Spratt, Graduate Assistant to Prof. H. B. Smith.

H. H. Wentworth, R. R. Engineering Division, Westinghouse Co.

J. W. Legg, Research Division, Westinghouse Co.

C. F. Alexander, Graduate Student.

H. C. Barnes, Traffic Dept., American Tel. and Tel. Co., New York.

A. S. Barrows, Westinghouse Co.

M. L. Haselton, Graduate Assistant to Prof. H. B. Smith.

R. D. Hawkins, Assistant to Prof. A. S. Richey.

W. S. Jewell, Jr., General Electric Co.

E. R. Nary, Westinghouse Co.

C. F. Palmer, General Electric Co.

R. H. Russell, Westinghouse Co.

M. M. Smith, Graduate Student.

C. C. Whipple, Graduate Assistant in E. E. Dept.

Chemistry Department

Arthur R. Cade, Graduate Assistant, University of Minnesota.

Arthur B. Clark, Research Department, Eastman Kodak Co., Rochester, N. Y.

Charles B. Hurd, Graduate Assistant, Worcester Polytechnic Institute.

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Largest Graduating Class

Present Seniors Outnumber All Previous Classes

The class which received its diplomas this morning numbers 93. This is the largest class in the history of the Institute, having three more graduates than the class of 1914, which was then the record class. The men come largely from New England, though representatives of many parts of the country are included. Washington, California, and Porto Rico are the most distant points represented. The list of seniors arranged according to the various courses, together with the recipients of advanced degrees, follows:

Candidate for the Degree of Master of Science

In Chemistry

George Stevens Simpson, B. S.,
University of Maine, '13, Marlboro.

Candidates for Advanced Degrees

Mechanical Engineer

Edmund Karl Brown, B. S., '13, Taunton.
Paul Albert Porter, B. S., '12, Webster.

Civil Engineer

Burtis Scott Brown, B. S., '05, Boston.
Paul Bertram Spencer, B. S., '02,
West Haven, Conn.

Electrical Engineer

Eric George Benediet, B. S., '12,
Waterbury, Conn.

Candidates for the Degree of Bachelor of Science

Course in Mechanical Engineering

George Sawin Atkinson, Natick.
Roy Clement Bowker, Baldwinyville.
Harold Fulson Brown, Gardner.
Carl Adrian Carlson, Worcester.
Ralph Herbert Crippen, Scranton, Pa.
Graham Noble Davidson, Chicopee Falls.
Vincent N. Diaz, Fajardo, Porto Rico.
Philip L. Donovan, Bellingham, Wash.
Frank Andrew Gray, Lebanon, N. H.
Ogden Blackfan Hewitt, Trenton, N. J.
Harvey Frederick Hillman, Nashua, N. H.
Harrison Warner Hosmer, Westfield.
Clifton Perry Howard, Worcester.
Harry Harris King, Shushan, N. Y.
Raymond Possons Lansing, Worcester.
Carroll Martin Lawton, Brooklyn, Conn.
Ralph Carroll Nourse, Worcester.
Douglas L. Parkhurst, Amherst, N. H.
Austin Eugene Poirier, Worcester.
Alden Reed, Worcester.
George Joseph Robinson, Gardner.
George William Smith, Jr., Newport, R. I.
Maurice Gaylord Steele, Hartford, Conn.

Course in Civil Engineering

James Proctor Allardice, Fall River.
John Edwards Allen, Lunenburg.
John Henry Conneen, Portland, Me.
Frederic Roland Cox, Portland, Me.
Benjamin B. D'Ewart, San Diego, Cal.
Warren Luther Ellis, No. Andover.
Francis Bernard Farrell, Boston.
Frank Forsberg, Worcester.
Charles Bigelow Garmon, Lowell.
John William Gleason, Rutland.
Daniel Augustine Haire, Worcester.
Frederic Herbert Hapgood, Athol.
Everett Hutchins, Worcester.
Henry Philip Kunzelman, Worcester.
Arthur Lyon Miller, Worcester.
George Wheeler Plaisted, Worcester.
Joseph Ernest Roy, Springfield.
Harold Bruce Stewart, Chelmsford.
Edward Elias Stiekney, Willsboro, N. Y.

Roswell Dearborn Tebbetts, Worcester.
Edwin Taylor Warren, Roland Park, Md.
Herbert George Wilson, Clinton.

Course in Chemistry

Dwight Emerson Allen, Northboro.
Henry H. Y. Babcock, Newport, R. I.
Arthur Rosson Cade, Wakefield.
Arthur Bissell Clark, Worcester.
Gustave Gerald Déry, Millbury.
Herbert Edward Drake, Worcester.
George Preston Halliwell, Worcester.
Carl William Hedberg, New Britain, Conn.
Charles Buell Hurd, New Britain, Conn.
Ralph Merrick Johnson, Worcester.
Robert Henry Lapidus, Meriden, Conn.
Harry Alfred Lavene, Worcester.
Ulric Jordan Lebourveau, Barre, Vt.
Fritz Nicholas Meyer, Waterbury, Conn.
Frank Gorman Morrison, Worcester.
Donald Graydon Rogers, Worcester.

Course in General Science

Andrew Gustaf Aldrin, Worcester.
Carleton D. Haigis, Shelburne Falls.
Harry Campbell Thompson, Ludlow, Vt.

Course in Electrical Engineering

Frank Aiken, Franklin, N. H.
Clarence Francis Alexander, Worcester.
Howard Charles Barnes, Shelburne Falls.
Arthur Storrs Barrows, New Britain, Conn.
John Milton Bond, Providence, R. I.
Frank William Bora, Webster.
Ernest Charles Britton, Linwood.
Charles Henry Coolidge, Worcester.
Raymond E. Crittenden, Northampton.
Frederick Widmer Eaton, Magnolia.
Earl Lincoln Fisher, Hinsdale, N. H.
Albert Stanley Goodrich, Harvard.
Robert Edward Hancock, Erving.
Merton Luther Haselton, Nashua, N. H.
Roland Dyer Hawkins, Springfield.
Russell Norman Hunter, Spencer.
Winfield S. Jewell, Jr., New Rochelle, N. Y.
Raymond H. Johnson, Winchester, N. H.
Joseph Willard Legg, Worcester.
Douglas Fuller Miner, A. B.,
Clark College, '12, Worcester.
Edward Russell Nary, Adams.
Ernest Braman Norton, Woods Hole.
Carl Fenton Palmer, New Bedford.
Alfred Wallace Pride, Amesbury.
Robert Henry Russell, Holyoke.
Myron M. Smith, New Brighton, N. Y.
Anson M. Vibbert, Torrington, Conn.
Clyde Colburn Whipple, Purchase, N. Y.
Donald Fairfax Whiting, Lowell.

FINAL TENNIS MATCH

The final contest of the tennis doubles tournament is scheduled for tomorrow morning at eight o'clock, on the A. T. O. court. Tomblen and Frazee will meet Wheeler and Hewitt in the best three out of five for the silver cups. Tomblen and Frazee have already defeated two strong teams, Vinal and Waddell and Babcock and Wyllie, while Wheeler and Hewitt have not had any very hard opponents in reaching the final. A hard contest and some excellent tennis is expected.

SENIORS SECURE POSITIONS

(Continued from page 3)

Harry A. Lavene, Chemist, Acheson Graphite Co., Niagara Falls, N. Y.
Fritz N. Meyer, American Brass Co., Waterbury, Conn.
Frank G. Morrison, Atlas Powder Co.
Donald G. Rogers, Faultless Rubber Co., Nashland, Ohio.

Successful Banquet Last Evening

Final Exercise of Celebration Program Goes Well

The banquet at the Baneroff last evening was carried out in the same successful manner which characterized the morning meeting in Mechanics Hall. A considerable delay occurred before the feast was served, but once the men were all there the program of the evening was carried through without a hitch. Five hundred and twenty-nine speakers, delegates, faculty, and alumni were seated at the tables, and the gallery was taxed to the limit with spectators to hear the speaking. The notables who delivered talks include Mayor George M. Wright; Hon. John W. Weeks, senator from Massachusetts; Arthur D. Little, a noted chemist; Howard Elliott, president of the N. Y., N. H. & H. R. R.; and Maj.-Gen. Leonard Wood, ranking officer of the U. S. Army.

About 7:45 the invocation was delivered by Rev. Allyn King Foster, and the assemblage sat down to the feast. Intermittent cheers rose from various class delegations, from the class of '71, the earliest graduating class down to '14, the latest class to graduate. President Hollis, Professor Coombs, and Professor Butterfield were given rousing cheers.

The speaking commenced about 9:30, Ex-Mayor Logan introducing Hon. Francis W. Treadway, president of the class of '90, and Ex-Lieutenant Governor of Ohio, as the toastmaster for the evening. Mr. Treadway read a letter from President Wilson to Hon. Charles G. Washburn, expressing his regret at not being able to be present; following this letter with a talk on the place of Tech men in the engineering world, enumerating many graduates of the Institute who are prominent in their profession.

Mayor Wright delivered a brief address of welcome, and following him was Hon. John W. Weeks. He said that a sound technical education is a valuable asset and tends to make a better man, whether doctor, lawyer, or engineer.

Dr. Arthur D. Little followed with a talk on the chemical phases of engineering, and President Howard Elliott came next. The latter declared himself opposed to public ownership in general, and opposed in particular to government ownership of anything that competes with private enterprise.

Major-General Leonard Wood gave an excellent talk on military conditions in the country to-day. He showed clearly what the conditions were, and made a plea for greater support in the standing army, in the militia, and in the military work of schools and colleges. He outlined a plan—similar to one in use in Switzerland—whereby the country would have an efficient and well trained militia which would afford protection in time of war should such a catastrophe befall, which we do not expect.

The meeting last evening was the last directly connected with the celebration, and many of the delegates have returned to their homes.

BASE-BALL MANAGER

G. M. Pomeroy 17, of Westfield, has been elected baseball manager for next year, and F. P. Butler, '18, of Waltham, assistant manager.

A Great Success

Anniversary Program is Testimonial of Tech's Standing

In every respect the Commencement and Anniversary program this week has been a tremendous success. The weather during the early part of the week was unfavorable, but Tuesday noon the clouds started to clear away and the weather yesterday was perfect.

The academic procession yesterday morning was but a few minutes late in starting, in spite of numerous changes in the order at the last minute. The seating of the two hundred and sixty in the procession occupied a remarkably brief period, and the speaking itself was excellent. Again in the evening, the speaking was splendid, and the entire program went smoothly.

Altogether, Tech has had an impressive celebration, and one which the delegates from all parts of the country will not easily forget. If there was any doubt before as to Tech's high place, the exercises the past week have entirely dispelled it.

CLASS DAY EXERCISES

Lounging beneath the tall trees upon the hillside east of Boynton Hall were gathered the members of the graduating class and their friends yesterday afternoon. The event was the celebrating of the annual class day exercises.

The weather man saw to it that a most perfect day for the occasion was served, and everything went along most successfully.

President Robert H. Russell, of Holyoke, was the first speaker of the afternoon and he delivered the address of welcome. He was followed by Ralph H. Crippen, of Scranton, Pa., who gave a very thorough and interesting review of the history of the class of 1915.

The class prophecy, written by John H. Bond of Providence, R. I.; George W. Plaisted and Arthur L. Miller, both of Worcester, was presented by these prophets. The Tech double quartette favored the listeners with a well rendered selection.

Music of high quality was rendered at various intervals during the exercises by the Tech Orchestra.

Upon the completion of the exercises, an inspection of the various buildings on the hill was made, followed by a reception at the home of President and Mrs. Ira N. Hollis.

M. A. C. WINS

Formal Dedication Game Is Defeat Johnson Proves Too Big A Puzzle

Three times Tech had informally dedicated Alumni Field with a victory; but its attempt to make the formal dedication of the same order was futile. The cause of the failure was one Johnson, M. A. C.'s captain and a pitcher whom Connie Mack already has his hooks on.

Tech was able to get but four hits and its single run came as the result of an error after Stone's triple. M. A. C., on the other hand, connected for eleven hits and totaled eight runs.

The game, however, was far more interesting than the score would indicate, as both hitting and fielding were at times sensational.

STOCK ROOM MANAGERS

C. L. Storms will assume the position of manager of the Book and Supply Department upon the graduation of H. H. King. G. M. Pomeroy becomes assistant manager and R. C. Lewis, of Atsonia, Ct., has been chosen from the class of 1918 to be sophomore assistant next year.

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The Rendezvous of College Fraternities

CHAS. S. AVERILL
President and Managing Director

NEW ERA IN ATHLETICS

(Continued from Page 3)

to get it down where it could be handled effectively. "Jigger" Jones again was the man chosen to direct the squad's activities and has filled the position admirably. The team has good baseball in them but have been playing rather loosely in some games. The first game with R. I. State was lost 1 to 0. Norwich the next week fell before the onslaught of the boys from Boynton Hill. Stevens was the next victim when in an 11th inning rally Tech pushed over the runs that counted in an 8 to 7 win.

New Hampshire State trimmed us twice, once here and once in Durham. The Y. M. C. A. College came here one Wednesday afternoon and gave a fine exhibition of how to play the game. The game with Boston College was a great game, being really closer than the 8 to 3 score would indicate.

The outdoor track season opened with the meet with M. A. C. This we easily won with 78½ against M. A. C.'s 47½. This was the second branch of sport to grace the new field with a victory in the opening contest. The week following came the inter-class meet and the relay victory at the Penn Carnival, Philadelphia. While the baseball team was christening the diamond with a victory over Stevens, May 1, the track team walked away with Trinity at Hartford. The last meet of the year came on May 15, when Rensselaer went down to defeat on Alumni Field. Throughout the entire season the team showed itself to be very well balanced, our men placing in every event.

Thus we can see that the new field has brought about a new life, and injected a new spirit into the activities. Not only varsity men but the student body as a whole have caught the spirit and, with our fine new "Gym" under construction, who can predict the heights to which the old Crimson and Gray may reach.



KNOWLTON GATES
Showing Boynton Hall and part of Campus

MANY DELEGATES PRESENT

(Continued from Page 3)

versity of Minnesota; Edward T. Ware, president of Atlanta university; Dr. Lemuel H. Murlin, president of Boston university; Dr. Edward Mueller, of Purdue; Edwin A. Corthell, of Swarthmore; Dr. George S. Davis, president of Hunter college; Dr. William J. Miller, of Smith college; Prof. Adaline M. Tirrell, of Lander college; Prof. John B. Peddle, of Rose Polytechnic institute; Dr. Charlotte F. Roberts, of Wellesley; Prof. Charles J. Tilden, of Johns Hopkins; Dr. Le Baron R. Briggs, of Radcliffe; William R. Sanger, of Bridgewater college; Dr. Roger F. Brunel,

of Bryn Mawr; Dr. Charles S. Howe, president of Case School of Applied Science; Dr. Booker T. Washington, principal of Tuskegee Normal and Industrial institute; John H. Nelson, of South Dakota State College of Agriculture and Applied Science; Dr. Arthur H. Wilde, ex-president of University of Arizona; Prof. Karl Steek, of University of Wyoming; Rev. Dr. John J. McCoy, rector of St. Ann's church, delegate from Catholic University of America; Dr. G. Stanley Hall, president of Clark university; Dr. Stephen I. Miller, of Leland Stanford university; Dr. Louis A. Turley, of University of Oklahoma; Dr. Howard Edwards, president of Rhode Island State College; Prof. Leonard P. Dickinson, of Rhode Island State college; Frederick M. Smith, of Graceland college; Dr. Henry Lefavour, president of Simmons college; Dr. Arthur A. Hamerschlag, director of Carnegie institute; Dr. Edmund C. Sanford, president of Clark college; Prof. Frank T. Dillingham, of College of Hawaii; and Dr. Edgar O. Lovett, president of Rice institute.

The delegates present from societies are as follows: Secretary R. B. Owens, of the Franklin institute, Philadelphia; Secretary Calvin W. Rice, of the American Society of Mechanical Engineers; Secretary Frederick L. Bishop, of the American Society for the Promotion of Engineering Education; President E. L. Corthell, of the American Institute of Consulting Engineers; Secretary J. C. Olsen, of the American Institute of Chemical Engineers; Secretary W. H. Ross, of the American Society of Refrigerating Engineers, and Secretary Erik Oberg, of the American Society of Swedish Engineers.

NEW COURSE OFFERED

Elective Course in Spanish for Sophomores

Some radical changes have taken place in the department of Modern Languages in the last few years and next year still another departure from precedent will be made by the addition of an elective course in Spanish for sophomores who have completed the requirements of the department in other languages, and for others by permission of the department. Mr. Richard Carlton Joslin, a graduate of Dartmouth and A. M. from the Harvard Graduate School, will be the instructor in this subject.

The course is planned to provide not only an opportunity for learning something of the Spanish language but also to afford some knowledge of Spanish life, customs, and manners, with special attention to our relations with our Spanish-American neighbors.

EXCELLENT CLASS PUBLICATION 1915 Aftermath Receives Approval of Students

Arriving fully a week earlier than in recent years, Volume 25 of the Aftermath of the Class of 1915 has appeared and has been distributed among the members of the class and the underclassmen. A limited number of copies are now in the hands of the managers and will be sold to those who arrive early.

The publication, which contains several added and attractive features this year, has been met with entire satisfaction by practically everyone, and it not only reflects credit upon the class, as well as the Institute and board of editors and managers, but also serves as a souvenir worth having in any Tech man's library.

Patronize our Advertisers. We recommend them as reliable firms, where you can get goods that satisfy

A HISTORY OF THE INSTITUTE (Continued from Page 1)

The first President of the Institute was Dr. Charles O. Thompson, a man of remarkable originality and force of character. He served for fourteen years; and the older graduates bear universal testimony to the respect with which he was always regarded both by his associates on the Faculty and by the student body. The entire Faculty of the Institute as it appears in the first catalogue consisted of the following members: The President, Dr. Thompson, who aside from his executive duties filled the position of Professor of Chemistry; George I. Alden, Professor of Mechanics and Physics, George E. Gladwin, Professor of Drawing, John E. Sinclair, Professor of Mathematics and Civil Engineering, Miss M. S. Fletcher, Teacher of French and German, Frank A. Sherman, Instructor in Mathematics, and Milton P. Higgins, Superintendent of the Machine Shop. Professor Alden, Professor Gladwin, and Mr. Higgins continued their connection with the Faculty of the Institute until 1896; and Professor Sinclair remained at the head of the Department of Mathematics until 1908. The growth in the student body has been accompanied by a corresponding growth in the number of the Faculty and instructors; the last catalogue of the Institute contains 57 names on its teaching staff.

After 14 years of effective work, Dr. Thompson resigned his position as President. He was succeeded by Dr. Homer T. Fuller, who filled the position until 1894. In 1894 Dr. T. C. Mendenhall became the President and remained at the Institute for seven years until failing health compelled him to resign. In 1901 Dr. Edmund A. Engler, of Washington University, St. Louis, was chosen by the Trustees of the Worcester Institute. Dr. Engler was identified with the Institute for ten years until 1911. He then resigned to return to Washington University. Dr. Levi L. Conant, Professor of Mathematics, served as Acting President for two years; and in 1913 the Trustees elected Professor Ira N. Hollis, of Harvard University, as President. Dr. Hollis has now been connected with the Institute as its President for two years.

When the Worcester Polytechnic Institute first opened its doors to students its work was of a character so individual that it at once attracted attention. The attempt was made to give a student as much of the practical side of engineering work as possible without interfering with the ordinary scholastic courses always given in engineering colleges. Through the facilities afforded by the Washburn Shops the Institute was able in a very marked degree to keep its students in touch with practical things; and when they graduated and went out to take their places in the world of affairs, the alumni of the Institute were found to be equipped in a remarkably complete and effective way. The Washburn Shops have always been one of the most marked and individual characteristics of the Institute, and its work has been investigated and commented upon by educators from all over the world. Many other institutions have, to a certain extent, copied these ideas; but the Institute has always remained individual in this respect through the possession of one characteristic. The product of the Washburn Shops has gone out into the actual business world to take its place in competition with the product of

shops and factories which were strictly commercial in their character. The Trustees have always been firmly convinced of the value of this element of the work at the Institute, and the testimony of the alumni is unanimous respecting the value that was added to their course through the training they received in the Washburn Shops.

In all respects the courses of study at the Institute have been fully abreast of the best that was to be had in engineering; and the Institute has always been in the very front rank of progress. No other institution possesses so varied and complete an equipment in Hydraulic engineering. No other institution has shown greater progress in its work in Gas engineering. No other institution gives a greater amount and variety in actual field practice in Civil Engineering. No other institution maintains a foundry which is carried on on a commercial basis, thus bringing students into closest possible touch with actual business conditions. This was the first institution in the world



Formal Dedication Game, M. A. C. versus W. P. I., June 8, 1915

Photo by C. Hollerich

to establish a professorship in Electric Railway engineering; this was the first institution to establish a course in Shop Management; and many other individual points might be noted which show the progressive spirit that has always prevailed here.

Worcester has always followed the policy of restricting its number of courses, believing that more effective work could be done by the greatest possible amount of concentration. The Institute began its work with three courses of study, Mechanical and Civil Engineering, and Chemistry. The General Scientific course was added in 1890, and in 1892 the course in Electrical Engineering was established by the Trustees. A course in Architecture was offered when the Institute began its work, but after a single year it was dropped from the catalogue. For many years the courses of study have stood as they now appear.

This week we celebrate the Fiftieth Anniversary of the granting of the charter of the Worcester Polytechnic Institute. The half century that has passed away has been a half century of foundation; but the next half century will see accomplished here on the hill work of far greater importance than any that has yet been accomplished. At no time in the history of the Institute has the outlook been as full of promise as it is today.

Note: This is the concluding part of the History of the Institute which was written by Dr. Conant especially for the "News." The first part appeared in the "News," June 8.

ALUMNI APPRECIATE "NEWS"

The following two samples of notes of appreciation from alumni show that the work of the News is not in vain among the graduates:

"ATLANTA, GA.
May 9, 1915.

Business Manager, TECH NEWS,
Worcester, Mass.

DEAR SIR:
Enclosed please find a money order for my 1914-1915 subscription to TECH NEWS. I wouldn't have been without it for a great deal. Put my name down for next year's News when the time comes. . . .
1914."

"NEW HAVEN, CT.,
May 24, 1915.

Editor, TECH NEWS,
W. P. I., Worcester, Mass.

DEAR SIR:
Please change my address from _____
I enjoy every issue of the paper, for it is full of real TECH NEWS and each week makes me more anxious to get back and see for myself all you have been telling us. Yours for a grand anniversary.
_____, 1910."

Over Half of Endowment Fund Raised

Professor Butterfield Gives Out Standing of Classes

Classes of '93 and '15 Strive for First Honors

Over half of the sum of \$100,000 which Professor Butterfield has started to raise for the endowment of Alumni Field and Alumni Gymnasium has been pledged as a result of his recent trip to the South and Middle West. Professor Butterfield has compiled the statistical information with regard to the amount pledged toward the \$100,000 and the amount pledged to other objects, this heading including the News, the JOURNAL, and the Y. M. C. A. At present Professor Butterfield's own class, that of '93, leads in the amount pledged toward the endowment fund, while the present graduating class, 1915, is a close second in this respect and leads in the total amount pledged for all causes with a total of \$4,615.

Only 758 Alumni have been seen by the Alumni's secretary to pledge an amount of \$52,446 for the endowment, while there are 1204 still to be seen, either personally or by letter, to raise the other half of the sum.

PRESIDENT HOLLIS HOLDS RECEPTION

Bancroft Ball Room in Gala Event

The ball room at the Bancroft Hotel was taxed to its utmost Tuesday evening carrying out the reception given to the guests, faculty, trustees, alumni, members of the graduating class and their friends by President and Mrs. Ira N. Hollis.

Between the hours of 8 to 10 p. m. there was a continuous full line of guests ready for the opportunity to greet President and Mrs. Hollis as well as Hon. and Mrs. Charles G. Washburn who assisted in the receiving.

Fully 2000 people were present for the gala occasion and the display of gowns worn by the women and young ladies, it is claimed, was never before surpassed. The brilliancy of color was exceedingly attractive and pleasing to gaze upon.

At the close of the reception refreshments were served and a portion of the ball room was cleared for those who desired to dance.

BASEBALL LETTERS AWARDED

The M. A. C. game closed the present baseball season, during which ten players qualified for a letter.

The athletic directors met and awarded the baseball "W" to the following men who have played in the required number of games: Capt. J. W. Gleason, H. H. Camp, E. L. Coderre, R. M. Daniels, R. E. Greene, F. N. Luce, F. E. Sheehan, E. E. Stickney, C. A. Stone, J. R. Wheeler, and Manager W. S. Warner. Manager Warner has announced that sweaters will be furnished to these men. This is the first time that the Athletic Association has been able to meet such an expense for several years.

STONE IS CAPTAIN Will Lead Nine Next Year

Immediately after the M. A. C. game, C. A. Stone, '16, was elected captain for next year. Stone is undoubtedly one of the best athletes Tech has ever produced. In his three years here he has won six "Ws" and was captain of last fall's successful football team.

M. E. DEPARTMENT NOTES

Asst. Prof. J. C. Davis has left for Purdue where he will receive his M. E. degree. He will return to Worcester early in July.

After Commencement, Prof. J. H. Nelson will return to Washington to complete his work at the Bureau of Standards.

Professor Gallup has returned from San Francisco where he was one of the Exposition Automobile Judges. It is not known whether or not he will be forced to go back for further work.

During the early part of the summer, Professor Fairfield will make some private tests on cutting tools. During the latter part he will perform his usual duties as salesman for the Washburn Shops.

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