

THE TECH

VOL. XXXI. NO. 36

BOSTON, MASS., TUESDAY, NOVEMBER 7, 1911

PRICE TWO CENTS

TECH GRADS TAKING HIGHEST POSITIONS.

The "Who's Who" of the Civil Engineers Graduated From Technology.

The "Who's Who" of the Civil Engineers who have graduated from the Institute is a very interesting one and shows the strength of the department of which the responsibilities are assembled in Professor Spofford. It includes some of the strongest men in the country in this specialty, which, it should be said, is much broader than many imagine. The outward and visible signs of the engineer is the man with the theodolite, and it might readily be thought that that is his whole work. It is, however, hardly more than an incident in the engineer's life, his main concerns being constructive items, like bridge building and the steel work in large skyscrapers.

John R. Freeman, water and sewage expert, formerly with the Massachusetts Board of Health, and now a consulting expert in Providence, whose advice is sought all over the world; Allen Hazen, whose trips on professional work include all the habitable degrees of latitude and longitude of the globe; J. Waldo Smith, chief engineer of the New York Board of Water Supply, under whose supervision the construction costs will amount to something over two hundred million dollars; and George W. Kittredge, chief engineer of the New York Central Railway, a position of enormous importance, are some of the men whom Tech are glad to call alumni. In the railroad world there is Henry J. Horn, assistant to the president of the New Haven Railroad; Frank P. McKinnon, head engineer of the Lehigh Railroad, while in educational circles there are Professor Swain, William E. Mott, head of the Department of Civil Engineering in the Carnegie Technical School in Pittsburgh, and Fred E. Foss, of the Cooper Institute.

A few others who have fallen from technical engineering into other business are: Philip Stockton, for example, president of the Old Colony Trust Company; Gelett Burgess, whose "Bromides" suggest chemistry and humor more than civil engineering, and Roger Babson, whose graphic curves of the conditions of the stock market are giving a new form of popular education to the people.

TUFTS GETS WIRELESS

Captain Harry G. Chase, of the Massachusetts Volunteer Militia Signal Corps, has offered the services of a portable wireless outfit similar to those used by the United States Signal Corps to the Wireless Club of Tufts College. The outfit will be placed at once in Robinson Hall, and in a few weeks the members are planning to set in active operation a station with a sending radius of from 400 to 500 miles.

Cornell has instituted a new "cut" system under which no man shall be excused without the sanction of medical advisers who have been appointed by the Faculty to safeguard the students.

Rowing will possibly be instituted at the University of Virginia, as a plan is on foot for an artificial lake similar to Princeton's, to be built at an approximate cost of \$50,000.

LATIN-AMERICA, THE LAND OF OPPORTUNITY.

First of Special Series on Foreign Countries—Contributed By Students.

Distance should be no longer an obstacle to our spirit of enterprise.

We sincerely believe that a young man should not remain stagnant in one place, draw there a salary and therefore stay in that one place for the rest of his life.

We do not condemn the spirit of adventure that a good many young fellows have; and we do not condemn it because a man should try, no matter what, no matter where, having honesty as his only boundary, to get fortune, because fortune acquired honestly brings happiness.

Then, suppose we should fail in our efforts.

What of it?

Still remains in our system our youth, and youth is the greatest fortune a man can wish. But youth does not last long. It is then necessary for us that we try the best we can in our younger days to take advantage of it, put it in some form that will last a little longer.

Fortune is that form.

If we have succeeded so far in bringing to your minds that the spirit of adventure is a good thing for a young man to have, we will tell you now that Latin-America is a vast field extending before you. You don't see it very well now, because it is a little distance away. But it is there. You must make use of that spirit of adventure that you have in your system and go to find that land of opportunity.

There you will find every chance to convert the activity of your younger days into wealth. And in a few years, we are sure, you will bring home, as in a storage battery, the good returns of your work.

There is a very common idea that we have a feeling of misapprehension against everything from America.

It is not so. How could it be?

The United States were at the time of our emancipation a most helpful hand, and they contributed greatly to the settlement of peace and enabled us to enjoy better days of liberty.

Let us remember the facts. After Napoleon's fall Russia, Austria and Prussia formed the Holy Alliance. Spain asked its support to subject the insurgent colonies. The United States, backed by Secretary Conning of England, spoiled the plans of such a union, and they were the first ones to recognize the independence of the new Latin-American Republics.

Re-established, the despotic government of Ferdinand VII of Spain tried again to control the development of our young republics. It was then that the United States set up the Monroe Doctrine, which was and has been since our protecting shield against the well-manifested ambitions of the European monarchies. Long before American citizens helped out Carrera, one of our generals, "the first one who stood against Spain."

Since those moments the American Union has always sent to Latin America elements of defence, elements of intellectuality, and those of material development.

In Chile, our beloved country, we had Wheelwright, an American citizen, who was the first one to establish the steam navigation in our seas.

Continued on page 3

OPPORTUNITIES FOR WORK AMONG BOYS.

Various Institutions In Boston Appeal To Tech Men For Such Work.

Men who are fond of boys have plenty of chances to do practical work with boys of all classes during their course at Tech. Several churches are looking for college men to take charge of boys' clubs, either to organize them, superintend entertainments and social gatherings, or to lead gymnasium classes. Settlement houses, the Ellis Memorial at 12 Carver street, in particular, want men for similar work, also to give practical talks to the boys from the streets whose vision of life may be tremendously broadened by contact with young men who are making good in such institutions as Technology.

Another call comes from Mr. John A. Chase for two men to give one evening a week to work among the boys at the Good Will Home, 180 Webster street, East Boston. The work is among a poor class of boys, young fellows from ten to fifteen years of age. If a man has had very little experience he need not be scared of the proposition. Mr. Chase's plan is for the man to come in one night for two or three successive weeks to get acquainted with the boys. He then selects four or five or more of the boys to whom he is attracted and organizes a club from this nucleus.

The Boston Y. M. C. A. has also sent a call to the T. C. A. for men to work in their boys' department, especially men to lead gymnasium classes. Some of this work is volunteer, while at least two positions carry substantial salaries.

It is perfectly legitimate for Tech men to bear in mind that in doing any such work as has been here suggested they are not only helping the boys, but are at the same time helping themselves in a very practical way. Any position that calls for ability in managing and in handling people can be of untold benefit to college men who expect to handle men all their lives.

Any students who want to engage in this work should see the secretary of the T. C. A. or Mr. Geoffrey R. Thayer, chairman of the Social Service Committee. Either of these men will give details of any line of work and will be glad to arrange interviews with the secretaries or superintendents in charge of the various organizations.

DEAD MAIL AT CAGE!

All mail that remains at the Cage more than four days after receipt will be returned to the Bursar's office and there forwarded to the home address. Such is the latest order from the Bursar. Any men who wish to have their mail left at the Cage for a longer time will please notify Mr. Rand at once.

Per order,
F. H. RAND, Bursar.

1915.

Nominations are open for 1915 Class Officers. Leave all nominations at Cage. A list of offices will be posted at the Cage or on the bulletin board. (36-2t)

There is room for several more men in the News Department of THE TECH.

DR. TUPPER TO SPEAK.

Will Talk on Immigrant Problem at T. C. A. Meeting.

Dr. George W. Tupper, Immigration Secretary of the Boston Y. M. C. A., is to be the T. C. A. speaker for the next weekly meeting on Thursday, November 9. Dr. Tupper is one of the foremost workers in the gigantic task of taking care of the flood of immigrants that pours into the country, and last year addressed a convocation in Huntington Hall on this subject. The subject he has chosen for Thursday is "The Great American Amalgamated Company."

The fact that the topic is of such vital interest especially to Tech men, who will be brought into close relations with the immigrant problem as soon as they leave the Institute, and that the speaker is an acknowledged authority on the subject and not unknown to Tech audiences, should guarantee a large attendance.

GYM TEAM STARTS.

Freshmen Should Compete For Places Left By Graduation.

Now that Field Day is over, interest in indoor athletic sports has been awakened. The first to become active is the Gym team, which begins practice this week. Much has to be done this season to develop a creditable team, and on account of this an early start must be made. Practice will be held every Monday, Wednesday and Friday, from 4.15 to 5 P. M., until further notice, beginning this week. Freshmen are especially urged to come out for practice, for the crack team of last year lost heavily by graduation. The main object of this year will be to turn out a team that will be able to continue the work to a higher state of efficiency next year.

The only men back in school this year who were on last year's team are Sada (captain), Hines, Sebbin and Heroner, and there will have to be fifteen men on the team besides substitutes. The team will consist of three men for horse work, three for horizontal bar, three for rings, three tumblers, and three for Indian clubs. With so many vacancies there is a chance for a good many to make good if they have any interest at all for this kind of work.

SWIMMING PRACTICE.

On Wednesday of this week the season of the Technology swimming team, with a very important meeting of all the men who are and intend to be interested in the newest of the Institute's winter sports, will open. Captain Leshner, in this gathering in the Union at noon, will describe the plans in mind, the arrangement of meets and the work required.

Now that the strife of Field Day is a thing of the past this is an opportunity that should appeal to the men to further the advancement of this brand new sport. It is to be thoroughly understood that everybody at the Institute is eligible as a candidate to attend the practices which will begin on Wednesday afternoon and will continue through November till the eliminations in the early part of December.

THE TECH

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TUESDAY, NOV. 7, 1911

Coach Kanaly at the Field Day dinner emphasized the fact that there are plenty of athletes at the Institute to make up a winning track team for M. I. T., a thing which has not occurred since 1894, when the track team won a championship. The class relay teams showed that there is plenty of good, fast runners in the lower classes, besides the large number of "Dark Horses" who do not recognize their own ability.

Coach Kanaly pointed out that with about twenty-five men available from the class relay teams to enter the various running events, and a fairly large number of the football and tug-of-war men out for the weight events, that the future of Technology in the athletic world looked remarkably bright.

It is up to every man who is not physically disabled to go out and let Frank get a look at them and find out if they have any hidden ability in the athletic line.

Kanally has planned to have each man make out a tabular view and will arrange the practice hours of each man individually so that they will interfere as little as possible with his other work and any outside interests that he may have.

In regard to the quality, "hidden ability," referred to above, it might be added that Captain Watkins of last year's cross-country team was developed from the raw material by Kanaly after the former had made a vain attempt to make his class football team. Wilson, captain of the 1914 relay team, which broke the record last Friday, and one of the best short distance men in the Institute at the present time, did not know how fast his legs could carry him until he took to heart one of Kanaly's calls for candidates last year, and reported at the Field and offered his services in the athletic line for the good of his college.

We hope that every man will cooperate with Frank and give him their best endeavors at whatever he sets them at doing.

The men are, of course, asked to do a certain amount of training, and this training is left to the honor of the men individually, as it would be physically impossible for the Coach to follow the men about as a guardian and watch their every movement. The men should have enough regard for the feelings of the rest of the undergraduates as well as the thousands of Alumni to endeavor to do their best in putting the name of the Institute of Technology at the head.

SOPHOMORE ELECTIONS.

Total Results Given Below—121 Ballots Cast in All.

The Sophomore elections, which closed last Friday noon, resulted in the casting of 121 ballots. In several places the voting was very close, noticeably in the A. A. and the Institute Committee. The total results are given below, the asterisks indicating those elected:

President.

Arthur C. Dorrance..... 27
*Theodore H. Guething..... 60
Paul B. Owen..... 26
G. C. Shedd..... 14

Vice-President.

Frederick B. Barnes..... 24
*Frederick L. Hurlbutt..... 53
William R. McEwen..... 36

Secretary.

Roswell F. Barratt..... 31
Frederick P. Karns..... 17
Howard L. Stone..... 34
*Paul H. Taylor..... 40

Treasurer.

Donald R. Dixon..... 30
Leicester F. Hamilton..... 35
*Alfred T. Wyman..... 45

Institute Committee.

Stirling H. Harper..... 19
Adelbert D. Miller..... 21
Eric W. Mason..... 26
Jack C. Morse..... 32
Robert W. Moorhouse..... 26
Maurice Paris..... 9
*Alden H. Waitt..... 55
*Gordon H. White..... 36

Executive Committee.

*Charles P. Fiske..... 74
*Harold A. Mayer..... 41
Robert V. Townend..... 11
Ralph E. Wells, Jr..... 30
George E. Whitwell..... 38
Francis Whitten, Jr..... 30

Athletic Association.

Chauncey D. Bryant..... 42
Thomas L. Chase..... 21
*Charles E. Fox..... 43
Henry L. Gardner..... 9
Howard A. Morrison..... 21
Alfred F. Nye..... 27
Chauncey F. Ruoff..... 15
*James W. White..... 50

FUTURE OF ALUMINIUM.

Remarkable Data Given Out Regarding Important Metal.

According to a report on bauxite and aluminium, recently published, remarkable progress has been made in the industry of that metal. Aluminium is the most abundant metal upon the earth's crust; it essentially occurs in all important rocks, and is only waiting the perfection of a process for cheap extraction to make its supply almost limitless. In 1910 the supply of aluminium in the U. S. was 47,734,000 pounds, and sold at 23 cents a pound, the price having dropped from \$1.00 an ounce.

Aluminium possesses remarkable quantities, and in its cheap extraction can be secured, as is expected, its industry will develop wonderfully. A certain alloy from 90 to 95 per cent. of aluminium is claimed, and has the qualities of good Bessemer steel, although very much lighter. A good imitation of gold can be made by the combination of aluminium and copper. Among many other uses may be mentioned those which point to a great future for the metal for structural and ornamental purposes.

Large sale of Surveying Instruments by a widow of a Tech man. A new Gurly Transit, W. J. Young Level, 4 Steel Tapes in good order, and 2 Chronometers (Atwood & Starrett) are in the lot. Information may be had by leaving name at Tech Office for L. H. Lehmaier, Adv. Man, or writing to John R. Hague, Tidouete, Pa.

LOST—A. D. S. Pin. Reward for return to Cage, addressed to A. E. B. Hall. (32-4t)

NATIONAL SHAWMUT BANK

40 WATER STREET, BOSTON

Condensed Statement at Close of Business Sept. 1, 1911,
as reported to the Comptroller of the Currency.

RESOURCES

Loans and Discounts	\$ 51,556,613.22
Investments	11,629,453.33
Due from Banks	17,065,681.11
Exchanges from Clearing House	4,728,951.32
Cash	11,279,205.11
	<u>\$ 96,259,904.09</u>

LIABILITIES

Capital	\$ 3,500,000.00
Surplus and Undivided Profits	5,813,181.57
Reserved for Taxes	147,009.87
Circulation	834,097.50
Deposits	85,965,615.15
	<u>\$96,259,904.09</u>

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with Bath	3.70 to 5.00
Parlor, Chamber and Bath	6.00 to 10.00

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LATIN AMERICA

Continued from page 1

and the first one to start work in our coal mines, and who nailed the first rails of the first Latin-American railroad between Caldera and Copiapo.

Then Meiggs, another American citizen, who built the most important Chilean railroad between the capital and our main port, Valparaiso. And then, not hundreds, but a great many American citizens have gone to our countries to sow there the seed of the American spirit, the spirit of energy, activity and work.

Is it then possible for us to have any bad feelings against the Americans?

Undoubtedly, no!

Latin America, with a rapidly increasing working population, needs now, more than ever, an increased immigration, and by this we mean an immigration of technically trained men, an immigration of brains, if you allow us to call it that way.

We need steel structures for our buildings, we need to replace our "bridges for the summer and swimming for the winter" for "safe bridges all the year round," we need to develop our water power sources, we need to build our ports, we need more railroads, etc., etc.

That is why when THE TECH requested us to start this foreign section with something about Latin America we accepted the invitation very willingly, because we wanted to tell every Tech man that a little distance away in the south there is a land where there is a fair chance for every one.

All we need to get there is a little courage, a little knowledge of the language of Castilla.

Forget for a while the love for home and go there, and you will come back, if you do come back, with your pockets full of money and the consciousness of having done good to some of your fellowmen.

FACULTY NOTICE.

Physical Laboratory.

Third Year.

Exercises for Courses I, III, V, VI, VIII, XI and XIV will end on Tuesday, November 14th. All thermometers should be returned to instructor by the student to whom they have been assigned.

Exercises for Courses II, VII, X, XIII will begin on Wednesday, November 15th. Students who have not already registered in Room 16 should do so at once. First assignment for all students will be Thermometry, Part I.

Second Year.

Courses VI, VIII and XIV will begin work as per tabular view on Monday, November 13th. Students who have not already registered in Room 16 should do so immediately in order to obtain assignments before the first exercise.

Students will meet for a few minutes in Room 22 Walker, at 4 P. M., on Friday, November 10th, for preliminary directions regarding laboratory work.

(36-5t) H. M. GOODWIN.

LOST YOUR RAINCOAT?

The Bursar has a number of valuable raincoats in his office that he would like to have claimed. (By the owners of course.) Will the men to whom they belong be kind enough to come around after their belongings and find some other place to store them?

GENTLEMEN—I call to your attention that I will pay more for cast-off clothing than any one in my line of business. A trial will convince you. Send postal to Max Keezer, 3 Bow street, or telephone Cambridge, Mass., 302. (21-26t)

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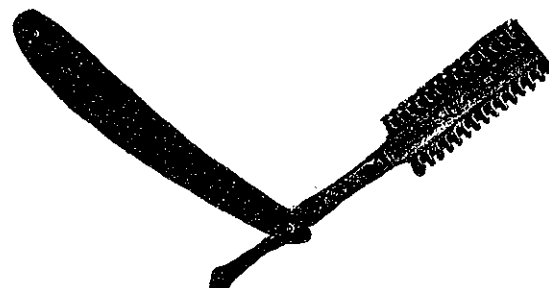
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(1-11)

Massachusetts Institute of Technology
November 1, 1911.
Gymnasium exercises in Physical Training will begin on November 6th. All First Year Students who have not been excused from these exercises on account of age or physical disability must report at the Gymnasium next week.
Hours of exercise for the different sections are given on the First Tabular View.
ALFRED E. BURTON, Dean.

Attention is called to the following rule of the Faculty:
"All marks of D, except in Physical Laboratory, incurred during the first term must be removed not later than the end of the following March; those incurred in the second term must be removed not later than the end of the following November; except that extension of time may be granted by the Faculty in the case of subjects which from the character of the work can be pursued to better advantage in the term for which the record is given. All deficiencies in Physical Laboratory must be removed at a date to be determined by the instructor, which date should not be later than the end of the following November."
"In case a mark of D is not removed at the date thus determined, the student shall be required to discontinue any dependent subjects which he is taking, and can obtain a clear record only by repeating the subject in which the D was given."
Petitions for extensions of time must be presented before December 1st.
A. L. MERRILL, Secretary.
November 4, 1911.

Do you patronize our advertisers?

Knots and Rigging.
One exercise each week for the several sections in Major Cole's course in Knots and Rigging will be held in Room 44 Rogers, at hours noted below, beginning November 6th:
Monday—4.15-4.45.
Tuesday—10.25-10.55, 11.05-11.35.
Friday—11.05-11.35, 4.15-4.45.
WALTER HUMPHREYS,
Registrar.

Candidates for Graduation.
November 1, 1911.
Notes in regard to status with reference to graduation have been sent to fourth year students. Any student who has not received a note should consult me if he expects to be a candidate for graduation in June, 1912.
A. L. MERRILL,
Secretary of the Faculty.

Massachusetts Institute of Technology
November 1, 1911.
The Committee on First Year Students will meet in Room 16, Rogers, on Monday, November 6th, at 2.15 P. M., for the consideration of the Intermediate records of the first year students.
A. E. BURTON, Chairman.

409 WARREN ST., SUITE 2—Front and back parlor. Would accommodate two or four fellows. Meals furnished at house. C. E. Hawkes. (36-11)
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As its name indicates, this rifle reloads itself, the recoil of the exploded cartridge doing the work. This places the complete control of the rifle under the trigger finger, which permits rapid shooting with great ease and accuracy. The .351 Caliber High-Power cartridge, has tremendous killing power, making it heavy enough for the largest game
Catalogue fully describing this rifle, "The Gun that shoots Through Steel," sent upon request.
WINCHESTER REPEATING ARMS CO., - NEW HAVEN, CONN.

