

THE TECH

VOL. XXX. NO. 57

BOSTON, MASS., MONDAY, DECEMBER 12, 1910

PRICE TWO CENTS

POPULATION OF U. S. 93 MILLIONS

Official Returns Given Out By Census Bureau Last Saturday.

101,100,000, INCLUDING PHILIPPINES.

Fifty-nine Additional Members to House of Representatives.

The returns of the last census were given out at noon Saturday by the Census Bureau at Washington. The estimate is about 93 millions, which does not include the population of the Philippine Islands. In 1903 they were said to have seven million six hundred thousand inhabitants. An interesting fact connected with the increased population of the United States is that there will be fifty-nine additional Representatives, making a total membership of four hundred and fifty in the House. The total population of the United States, including the Philippines, is 101,100,000.

ADVANCE IN SURGERY AT ROCKEFELLER INST.

Dogs' Hearts Removed, Grafted Upon and Replaced Without Injury.

A great and novel stride in surgery has been made at the Rockefeller Institute recently by Dr. Alexis Carrel, who has been carrying on numerous interesting experiments on dogs' hearts. The doctor is able to preserve a piece of jugular vein in cold storage, and replace it in the dog by an operation lasting twenty-four minutes. It has been successfully demonstrated that cardiotomy (cutting into the heart), followed by suture with large silk thread, does not present any danger. Most of the dogs operated on do not seem to have undergone any bad effects due to the experiments made upon them.

INTERESTING CHANGE IN OPERATIC DRAMA

David Belasco Has Written and Staged a Western Play.

Some time ago David Belasco wrote and staged a Western play of great vogue. Some time later Giacomo Puccini, composer of Tosca, La Bohème and Madame Butterfly, witnessed the performance and was impressed. Finally, on the evening of Saturday, the 10th, at the Metropolitan Opera House in New York, there was a brilliant performance. Caruso, Destinn and Matfield sang; seats brought fabulous prices; uniformed boys in the lobby were selling librettos which were headed "La Fanciulla del West." The Girl of the Golden West! The title is significant—it marks an epoch. For the first time in the history of operatic drama a great composer has chosen an American story as the theme for his music. The whole opera, which is of great intrinsic value, is a distinct triumph for America and its growing art.

At Brown University grandstands are inspected by the city authorities before each game.

The Navy football squad contains five captains; King, captain of the football team; Laftin, captain of the eight-oared crew; Edwin, captain of the baseball team; Carey, captain of the track team; and Scott, captain of the fencing team.

NEW DORMITORY FOR COSMOPOLITAN CLUB

Plans Being Made For Securing House on Newbury Street, Near Rogers.

THREE POSSIBLE LOCATIONS.

Scheme Backed By Prominent Men Among Faculty, Alumni and Students.

In order that the Cosmopolitan Club may be of service to its members and also to provide a better and more convenient meeting place, plans are now being made for the establishment of a Cosmopolitan House at Technology. The idea is that the upper floors of the house shall be occupied by members as living rooms, and that the first floor be given over entirely for club purposes. This "dormitory scheme" has the approval of several of the faculty members, members of the corporation and alumni.

As to the location of the house, the Executive Committee of the club is now considering three different propositions, all of which specify that it shall be located within a block of the Rogers building, and on Newbury street. All of these places are very nicely furnished and are extremely convenient to all Tech buildings.

This movement is the natural result of the dissatisfaction of rooming houses among the students and especially among the foreigners, who have more trouble in this respect than do the Americans. Also the club has completely outgrown its present quarters, which are located on Boylston street, and this will give a greater scope for the growth and enlargement of its benefits.

Of course the success of the enterprise depends largely upon whether or not enough members can be secured to reside at the house. In this connection a reporter of The Tech was informed that about twenty men could be accommodated, allowing one or two rooms as guest chambers.

The House Committee will be directly in charge, they having the advice and counsel of the Executive Committee. The prices will be very reasonable, and the comforts of the men will be carefully looked after.

In order that the members may be more thoroughly informed of the purposes and aims of the club, a dinner is to be given on New Year's eve at the Technology Club, and everybody, whether a member or not, is urgently requested to attend and hear what Dean Burton, Harvard Cosmopolitans and others have to say about the matter.

AUBURNDALE CONCERT ON TUESDAY NIGHT

Musical Clubs to Give Concert at Norumbega Hall—All Seats Sold.

On Tuesday night, December 13, the Musical Clubs will give a concert at Norumbega Hall in Auburndale. This concert is evidently pleasantly anticipated by Auburndale people, since the entire house has already been sold out for the night. The Banjo and Mandolin Quintettes will render selections, as also the Mandolin and Glee Clubs, and there will be a reader who will give readings between the musical selections. The entertainment is expected to last from 8 o'clock to about 9.30, and it will be followed by a dance.

All the Musical Club members will be taken on this trip to Auburndale, and the final decision of the men who will play at the mid-winter concert will be made from the showing made Tuesday night. The men who are going (Continued on page 3)

FIRST ISSUE OF "SCIENCE CONSPECTUS"

Society of Arts Starts New Popular Science Publication.

ARTICLE ON THE GYROSCOPE.

"Extent of the Universe" as Deduced From Scientific Research.

The first number of a new publication by the Society of Arts has appeared under the name of "Science Conspectus." The purpose of this new publication is to give to lay readers a concise account of the advance in various branches of science. Original articles from authorities in diverse lines of investigation, as well as of digests and reprints from other periodicals, will be published.

The first article in this new magazine is "The Gyroscope and its Applications." It is essentially a resume of the lecture given by Mr. E. A. Sperry at the 670th meeting of the Society of Arts. The article gives an account of the general properties of the gyroscope, as well as its application to ship control and the monorail railroad. It is illustrated both by diagrams and by numerous excellent photographs.

A most interesting article by Simon Newcomb, the eminent astronomer, on "The Extent of the Universe," is reprinted from Harper's Magazine. In it Dr. Newcomb discusses the distribution of stars in space and the probability that there exists an outer void unoccupied by heavenly bodies. The article makes fascinating reading, not only because the subject is most interesting, but also because Simon Newcomb's style is exquisite.

In an article entitled "The Reality of Atoms," Dr. D. F. Comstock of the Physics department presents the case for the discontinuity of matter as developed by the recent work in the field of radio-activity by Ernest Rutherford, and by the work of Prof. Millikan on the condensing action of ions in mist-laden air. From the results of these investigations no other conclusion is possible but that atoms have a real existence.

Mr. S. M. Gunn has contributed an article giving an outline of a lecture by Karl Pearson on "Practical Eugenics." In it are discussed the effects of factory legislation, compulsory primary education, and economic conditions on the birthrate of a country.

"New Discovery in Soil Fertilization" is an article discussing recent investigation on the destruction of soil protozoa by partial sterilization, and the resulting increase in fertility.

The remainder of the thirty-two pages are devoted to a series of short articles on scientific topics of general interest. The lecturers who will address the Society of Arts during December are announced. They are Mr. L. K. Rourke and Professor A. Jaggard, Jr.

All the articles in the new publication are interesting and easily understandable by the layman. For these reasons, and because it puts into permanent form the lectures delivered before the society, the pamphlet will undoubtedly be welcomed by the members.

Under a new rule, no undergraduate at Cornell can have the letter "C" in his pipe unless it has been earned as a member of a 'Varsity team.

Lady on Pullman—Boy! where are the porter's quarters on this train?
Candy Kid—In the passengers' pockets yet, Miss.—Case Tech.

TECH SWIMMING TEAM HAS FIRST PRACTICE

Coach Mann of Brookline to Have Charge of Team.

With the meeting of the men interested at the Brookline Athletic Club one night last week, the first definite move for a Technology swimming team was made. Mr. Mann, who is to coach the team, welcomed the men and advised them as to the methods they should pursue in the future. Every man is to join the Brookline Athletic Club, whose dues are two dollars a year, in order that the use of the tank on Tuesday nights and the services of the coach may be secured without extra cost. The men were also advised to use either the Cabot street or the Salvation Army tanks on other nights when possible.

The first lesson consisted in demonstrations of the racing dive and the crawl stroke. After this cocoa and buns were served.

Twenty-five men have joined the swimming association, and the number is steadily increasing. All who are interested should report at the Brookline tank on Tuesday night.

MEN WORKING HARD FOR RELAY TEAM

P. D. White, 1911, Temporary Captain of Two-Mile Team.

Many men seeking track honors are working hard at the Gym. This year there will be two relay teams—a mile and a two-mile team. Quite a large number are out for them, and there is a good possibility of the teams being up to the high standard of former years. The following men are candidates for the teams:

One-mile—Alexander, 1914; Cummings, 1911; Gabriel, 1912; Guething, 1914; E. R. Hall, 1911; Munch, 1913; Murray, 1912; Reed, 1912; Captain Salisbury, 1911; Strachan, 1913; Thompson, 1913; G. W. White, 1914; and Wyman, 1914.

Two-mile—Bylund, 1913; Davis, 1911; E. E. Ferry, 1912; R. M. Ferry, 1912; Fox, 1914; Marceau, 1912; Mattson, 1913; Milliken, 1913; Mills, 1911; Newlin, 1914; Nute, 1914; Nye, 1914; Sampson, 1913; Stubbs, 1914; P. D. White, 1911; Turner, 1914; Van Alstine, 1912; C. H. Wilkins, 1914.

Besides these men Coach Kanaly will add to the candidates for the teams any men working hard and showing interest in their work.

P. D. White has been elected temporary captain of the two-mile team, so that the men can be watched by some one in authority and be given useful hints in the absence of the Coach.

The indoor season this year will be much more active than last from the point of view of Tech. Besides running at the B. A. A. and Columbia University games, the relay teams will probably run at the Providence A. C. games. Individual entries will be sent to the Columbia games.

It is too early to pick the most likely candidates for the teams. The preliminary trials will be held December 22, and the finals a few days before the mid-year exams.

CALENDAR.

Monday.

- 4.00—Mandolin Club Practice—Union.
- 4.00—1913 Cross-Country Practice—Gym.
- 4.00—1914 Cross-Country Practice—Gym.
- 5.00—Basketball Practice—Gym.
- 5.30—Hockey Practice—Arena.

THE TECH

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T. E. Senior 1913..Gen'l News Editor
R. S. Rankin, 1913...Athletic Editor
A. L. Myers, 1911...Institute Editor

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MONDAY, DECEMBER 12, 1910.

More plans for dormitories—this time from the Cosmopolitan Club! This fact is well worth noting as it put in concrete form the sentiment which has existed at Tech for a long period of time,—a sentiment about a peculiar state of affairs which exists at few other colleges, and one which, to a great extent, is responsible for many of the unfortunate conditions at Tech, for which remedies have been sought in vain.

It is acknowledged by old Tech men that there is no "college spirit" at Tech. This is deplored by a few, but the majority look at the matter indifferently and give such excuses as lack of time when an earnest appeal is made by "the few" for the support of some student activity. This indifference to matters of vital interest in the affairs pertaining to the well being of the Institute is a matter to be deplored by all, and for which a remedy should be sought for if the Institute is to keep the good name among the colleges of the United States which it has earned in the past.

This is not the only phase of the question and many other less evident conditions could be shown. But space is lacking and we will devote ourselves to this one phase. The question is: What is the cause and what the remedy?

It would be a mistake to believe that it is due to one isolated fact, or that one slight change would entirely remove the objectionable condition.

However, there is one well understood cause of the lack of college spirit at Tech, and that is the fact that the students of the Institute do not "get together" in a social way. And it is not their fault in the main. The conditions for getting together are not provided, and each man tends to draw back into his shell, or at best limit his acquaintanceship to a very few men.

But we are very glad to see the step taken by the Cosmopolitan Club, as we believe it is a step in the direction of breaking down these barriers. Let the idea grow! Why not have real Tech dormitories?

COMMUNICATION.

Editor of The Tech:

I read with considerable interest the communication published recently in The Tech concerning the towels in the Union. With the large number of men making use of the Union every day the supply of towels is entirely inadequate, and moreover, this condition of affairs has existed for the past two years. The towels become soiled and unfit for use by noon every day, but still they are not changed, but left to become a harboring place for disease germs. Why not be consistent and furnish sanitary toilet rooms as well as sanitary drinking fountains?
MIKE ROBE!

Nearly 120 Seniors at Yale have given to the Yale News accounts of their expenses at College in their Freshman, Sophomore and Junior years. For the Freshman year the accounts of 114 men ranged from \$115 to \$2,200, the average being \$1,033.48. In the Sophomore year 117 men spent sums from \$150 to \$2,850 apiece, the average being \$1,001.89. In the Junior year 119 men each spent sums ranging from \$150 to \$2,700, and the average was \$1,133.50. In considering these figures it must be borne in mind that they are taken from only a part of the class and, therefore, the averages are not absolutely accurate.

Bowdoin is to have a new board track, for which the Faculty will give as much as the student body.

Dr. Adam Miller Hildebeitel, a graduate of Princeton in 1900, has been secured by the University of Pennsylvania as an instructor in advanced mathematics. Since the opening of the college the authorities have been looking for a man to fill this position, and decided upon Dr. Hildebeitel as a man who was both a scholar and an able teacher. Princeton was also desirous of securing Dr. Hildebeitel's services, but he finally decided in favor of Pennsylvania. Dr. Hildebeitel, after his graduation, taught in his Alma Mater a year and a half and received his doctorate there in 1905. From this date until 1909 he taught mathematics in the Berkshire Academy. Last year he spent in Germany studying his profession.

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FRESHMEN ELECT TRACK OFFICIALS

T. L. Chase Elected Manager, T. H. Guething, Captain.

At a meeting of the Executive Committee of the Freshman class last Friday, T. L. Chase was elected manager of the 1914 Indoor Track Team, and T. H. Guething temporary captain. The final captain is to be chosen by the team themselves after the squad has been picked.

At present the team is practicing regularly at the Gym in preparation for the Freshman meet, which is the first event on the indoor schedule. The date for this meet has not been definitely settled, but as the Freshman-Sophomore meet is to be the 4th of February, it will have to come some time before the mid-year examinations. The men who show up well in this meet will be picked to compete in the meet with the Sophomores and the other meets that have been arranged.

There is a large squad at present, although there is a great lack of hurdlers and shot-putters, while absolutely no pole vaulters at all have reported yet. Here is a good chance for 1914 men in these events! The men are out doing exceptionally good work as a whole and the prospects of a close meet with the Sophs are promising.

LAST BIOLOGICAL MEETING OF YEAR

Mr. W. S. Johnson, 1889, Will Talk on Stream Pollution—Meeting to Be Open One.

As the speaker of the evening for the last Biological meeting of the year, which is to be held at the Union on Tuesday evening, the committee has secured Mr. W. S. Johnson, 1889. Mr. Johnson is a well-known sanitary engineer, and he has announced that his talk will be about "The Purification of Streams Polluted by Manufacturing Wastes." This is a subject that is of interest to all engineers and students of municipal problems, so the meeting will be an open one. Some of the speaker's well-known works are those in connection with the Boston sewage scheme and the Massachusetts State Board of Health. Dinner will be served at 6.30 sharp.

(Continued from Page 1) ing are to report at the Back Bay Station at 7 o'clock, and they must be in full dress, as there will be no time to dress after arriving at Aurburndale.

There should be a good representation of Tech men at the concert, and although the seats are sold, there will be plenty of room for dancing.

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PRACTICAL SANITATION TRIED AT UNION

Union House Committee Has Made Many Improvements in Equipment.

The Union Committee this year is composed of the Dean, as chairman, the President's assistant, Mr. Scharff, and five undergraduate members, three of whom are chairmen respectively of the Dining Room, the House and the Entertainment Committees. These members are C. H. Carpenter, chairman of the Dining Room Committee; H. M. Davis, chairman of the House Committee; N. McL. Sage, chairman of the Entertainment Committee; A. C. Metz, secretary of the

After the Union Committee meeting yesterday it was announced that M. Lewin and J. S. Grant had resigned from the Dining Room Committee. It was also stated that there would be no more entertainments this month, reason for this being that the winter concert falls on Friday, the 16th, and on the following Friday many of the students will have left town.

There will soon be some liquid soap placed in the wash room, which will also be a more sanitary and less wasteful method than the present one.

A copy of the 1910 Senior Portfolio has been put in the Technique bookcase, the key of which may be obtained at the Cage.

The trophy cups have been polished, and two of them, the DuPont and the Field Day cups, have been sent to New York for necessary engraving. If the music already placed on the piano proves to be popular more will be added from time to time.

While there are a few men who still keep their hats on in the living rooms of the Union, the majority of the students respect the Union enough to take their hats off. It is hoped the remaining few will soon be shamed into acceding to the unwritten request. In general, the committee finds the Union quite orderly, and it hopes that the advent of the paper towels will not cause it to be otherwise. Baskets have been provided for the used towels and all are requested to put them there.

Finally, the committee desires that more care be taken of the magazines, as it finds that too many of them show marks of rough handling. The Union is coming to be recognized more and more as a student club, with the result that it better serves its purpose—that of a social meeting place for all students.

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FACULTY NOTICE.
Problem books in Physics Heat are returned and may be obtained in the basement of Walker Building.

NOTICES.
The secretaries of all the societies, clubs or organizations at the Institute are requested to leave notices of meetings, dinners, practices, etc., at The Tech Office for E. W. Taft, in order to assist in making out the Calendar. Notices should be left as far as possible in advance. (56-3t)

NOTICE.
Ballots for Prom Committee Election may be had at the Cage and must be handed in again at the Cage before 4 P. M., Monday, December 12. Absolutely no ballots will be accepted after that time. Dues may be enclosed with the ballot envelopes, and must be signed.
ELECTION COMMITTEE.

1913.
Managers for class baseball and basketball teams will be elected Tuesday, December 13. Nominations for these positions, signed by ten members of the class, may be left at the Cage for the Executive Committee, not later than 4 o'clock of that date. (54-57) S. M. BAXTER, Clerk.

NOTICE.
The 1913 Tug-of-War Picture will be taken at Notman's Studio on Park street, December 13th, at 1 P. M. sharp. Please wear the regular sweaters. (5t) A. S. MILLIKEN, Mgr.

NOTICE.
Two volumes of Technique for sale, 1894 and 1895; 1895 is dedicated by President Walker and has his picture as a frontispiece. Apply at Room 36, Walker.

NOTICE.
Gentlemen, I call to your attention that I will pay more for your 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. (tf)

NOTICE.
LOST—A slide rule with owner's name on it. W. Muther, Cage.

NOTICE.
There will be a Chess Club meeting Monday at 1.45, in the usual room of Engineering C. Everybody be there. (57-1t)

NOTICE.
The following articles of clothing have been left in my office and are still unclaimed:
One black overcoat, left in Lowell Building, November 16th (apparently the property of a Freshman from San Francisco).
One light coat, left at the Cage September 30th.
Two caps, left in Lowell Building November 16th.
One raincoat, left in the Rogers Building.
One pair of spectacles.
I shall be glad to have the owners call at my office and identify their property.

Yours very truly,
MAURICE R. SCHARFF,
President's Assistant.
December 7, 1910.

ATTENTION, 1914!
All candidates for the class basketball team report at Gym on Monday, Wednesday and Friday, at 5 P. M., commencing with December 12th. A good schedule is being prepared, and every man who knows the game at all is urged to come out.
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