

# THE TECH

VOL. XXX. NO. 56

BOSTON, MASS., SATURDAY, DECEMBER 10, 1910

PRICE TWO CENTS

## IMMIGRATION PROBLEM DISCUSSED AT MEETING

Mr. C. R. Towson of New York  
Addresses Students at Third  
Convocation.

### PLEA FOR AMERICANIZATION.

Technology Men Urged to Co-operate  
in Movement to Better Social  
Conditions.

At the third and probably last Convocation of the term in Huntington Hall yesterday, Mr. Charles R. Towson, a leader in industrial work throughout the country, spoke on "The Problem of the Immigrant." Mr. Towson proved an able speaker and drove his points home with great clearness before an enthusiastic and appreciative audience.

"The immigrant problem," said the speaker, "is a particularly American one." Immigration from Europe is turned toward all parts of the world, but the great mass of this surging wave is directed toward America, and the existing danger to us is mainly the possible non-assimilation of these new arrivals. America thereby becomes one of the best fields for missionary work in the line of inculcating in the immigrants the spirit of Americanism. The forces that are most effective in producing this attitude are the men who occupy the important positions.

It was at this stage that Mr. Towson's talk became directly personal, for he pointed out that the men who do occupy the important positions are the "trained engineers," the men coming from the scientific schools of this country whose training and education is such that they understand and can handle men. It was pointed out most clearly that the students of the Institute, as future arbiters in the big affairs of the world, should strive for this training that would enable them to influence the ideals and principles of our fellowmen for the common good.

Great corporations have awakened to the spirit fostered by the Young Men's Christian Association and have responded nobly in the effort to arrange the condition of the immigrant so as to fit him for the greatest efficiency. Many of the scientific institutions, particularly the Sheffield branch of Yale University, have been doing a great deal of work in educating the immigrant. The students give up a certain amount of their time to instruction of the immigrants in English. The benefit that is given to the scholar reacts with intensity upon the teacher. In this way, the engineer of to-morrow learns today the best possible use of his tools, the men upon whom he will ultimately depend. The value of this broadening of the experience of the engineering student is too evident to require comment.

Work of this kind will be started here in a short time and Mr. Claghorn of the local Y. M. C. A. will then have use for about fifty men to help in the Americanization of the immigrants in Boston.

At the conclusion of his talk, Mr. Towson was warmly applauded.

## ORCHESTRA COMPOSED OF THIRTY PIECES

There are now twenty-nine pieces in the Tech Orchestra, including 12 violins, 4 cellos, 3 flutes, 2 cornets, and one each of the piano, trombone, horn, drum, bass viol and viola. The latest piece the orchestra is rehearsing is Thomas' "Raymond." This piece will probably be chosen as the overture to be played at the winter

(Continued on page 3)

## E. E. SOCIETY HOLDS WEEKLY EXCURSION

Holtzer-Cabot Company's Plant  
Inspected by Twenty Men  
Yesterday.

### GUIDES FURNISHED.

Various Types of Motors, Generators  
and Other Electrical Apparatus  
Explained.

Twenty members of the Electrical Engineering Society attended the weekly excursion to the works of the Holtzer-Cabot Company on Albany street. The men were divided into small groups, the company furnishing three experienced guides, while Prof. Harrison W. Smith of the Electrical Department of the Institute went along. The guide first explained and pointed out a form of noiseless motor used in the better type of cash register systems. These motors are 6-pole machines with laminated iron cores and wrought iron pole-shoes. The specifications calling for these machines require that they be absolutely noiseless to avoid disturbing the lady cashiers.

The machine shop was next visited, where the making and assembling of the small machines was carried on. All possible of this work is done on machine lathes. The frames of the small Bi-polar machines are made from one piece of steel pressed out into the proper shape. They are now making 4-pole frames and pole-pieces which can be used on either A. C. or D. C. machines. The next department visited was that where the commutators were made. Various forms and sizes of commutators were found here from the baby type up to 15 h.p.

Among the various types of armatures shown, one of especial interest was the kind which is being used in the so-called split-line telephone service. This is effected by having a system of armatures of different frequencies which do away with a considerable amount of unnecessary ringing. The cores in all the armatures are made of laminated iron, 28 gauge being used in the A. C. machines, and 26 in the D. C. machines.

The grinding room was next visited, where the frames of all the apparatus are ground down before being Japanned.

The testing room was the next point of interest. Here the motors, generators, etc., are tested for temperature, speed, current, connections and Free Watts. The temperature of the motors is not permitted to go above 60 degrees C. At that temperature one can bear his hand on the machine without any discomfort. A new type of machine is being constructed in this department which will give four different voltages with absolutely no inter-connection of wires.

Lastly the power plant was visited. Here we found a generator of a type not very generally seen, namely a 110-volt generator with copper brushes. The power for the entire plant is derived from this machine and another of the same size, but of a newer type.

## WHAT DO YOU KNOW ABOUT THIS?

Elbert Hubbard in "Little Journeys to the Homes, Readers and Teachers," commits himself as follows: "We have all heard of 'Harvard Beer' and 'Yale Mixture,' but be it said in sober justice that Yale has no official brand of tobacco, yet Harvard men consume much beer, and many men at Yale smoke, and if you want to see the cigarette fiend in his native heath, you'll find him like the locust on the

(Continued on page 3)

## T. C. A. FURNISHES SPEAKERS FOR UNION NIGHT

Interesting Talk Given By Mr.  
Towson, Dr. Tupper and  
Mr. Claghorn.

### GOOD ATTENDANCE.

Work of the Association Outlined for  
the Year—Many Plans.

Friday night a very interesting talk was given at the Union by Mr. Towson and others along much the same line as the talk he gave at the Convocation in the afternoon, that is, the need of having men go down among the poor foreigners and teach them English. The evening would have been enjoyed by any one even if he was not interested in the subject because of the humorous anecdotes with which the talks were plentifully sprinkled.

The first speaker, Dr. Tupper, told several stories, in which he brought out the following facts: The members of these classes among the foreigners desire constantly to approach the standard of living set by the teacher. The teacher soon becomes very interested in the men since they find that they are men like themselves, and often fine examples of men in the making. Then the chairman, Mr. Warner, spoke, giving experiences of his own in business, bearing out what Dr. Tupper had said.

Next Mr. Claghorn spoke for a few minutes. He first brought out the fact that the matter concerned the reputation of the Institute and mentioned other colleges which had taken it up successfully. Then the chairman rose and spoke strongly in favor of Tech men doing this work of teaching the foreigners.

The speaker of the evening, Mr. C. R. Towson, began his talk by suggesting that there are other lines of work which might be done by Tech men besides teaching English to these men. For instance, men are needed to help them get out their first citizenship papers and to teach them the duties of citizenship. Also others are wanted to lead clubs of various kinds which have been organized by foreigners in the poor districts. Then he said that teaching English is not impossible even if the teacher himself cannot speak the language of his pupils.

Then he mentioned the deplorable and much discussed waste of the country's natural resources, and compared this to the waste of human resources which is also going on because of the ignorance of our immigrants. If the foreigners who come in such numbers to this country could speak English or have opportunities to learn they could at least have a chance to make good which now they lack. He showed that engineers could help in this work because they have to handle these men in their business enterprises, and that it would be of advantage to both employers and laborers. Hence engineers should be able to build character as well as bridges, and this work is a fine preparation for it.

The fact was emphasized throughout the evening that the teachers as well as the pupils are benefited by this work.

Mr. Towson brought out the fact that the Young Men's Christian Association has been successful because it is a character building institution. He showed the great importance of character building. Then he went on to point out the importance of religion and the bringing out of the spiritual as well as the social side of the men.

(Continued on Page 2.)

## COLONEL E. A. STEVENS TALKS OF FERRYBOATS

Naval Architects Get Ideas of  
Design of Such Ships From  
Noted Authority.

### DESIGN OF TWIN SCREW BOATS.

Tank Boilers Best—Strong Guards  
Suggested to Prevent Destruc-  
tion in Collisions.

An address that was of particular interest to the members of the Department of Naval Architects was given in room 32 of Engineering C, at 12 o'clock yesterday, by Colonel E. A. Stevens of New York. The subject of the lecture was "Ferryboats," in the construction of which the speaker has had a greater experience than anyone in the country.

Colonel Stevens spoke of the necessity of good design, even in such small vessels as brick scows, and explained why the paddle wheel boats are still the best for some types of service. His principal remarks were about twin screw boats, which have a screw at each end.

In designing such a vessel the net receipts of the owner are the principal things to be looked after. Work done by a ferry is not only to be measured in ton-miles, but the comfort and convenience of the passengers, which are necessary to keep the trade, must also be considered.

The Scranton boats were built with extra strong guards, the owners specifying that they wanted boats which had guards about twenty-five per cent. stronger than the best then plying in New York harbor. The result has been that though the boats have been in several collisions, the guards were not broken in. The extra strength has increased the displacement from 900 to 1000 tons.

In ferryboats a tank boiler is best, for the service requires a considerable storage of heat during runs, and if water-tub boilers are used, the rate of firing must be changed or the safety valve will be continually blowing off.

In the preliminary design of ferryboats the controlling features are the height of the ship, the diameter of the propeller, and the form of the hull near the boiler space where interference is most likely to occur. Colonel Stevens has adopted a type of rudder supported entirely by the rudder stock, this permitting the steering instrument to be replaced without docking in the least possible time.

In designing a propeller, a type that will give equal efficiency going ahead and astern must be secured. Therefore one is used whose forward and aft faces are parallel, and whose edges are rounded on both sides.

Colonel Stevens will give another lecture today at 11 o'clock.

## CALENDAR.

### Saturday.

2.15—1914 Indoor Track Team—Gym.

2.30—Varsity Indoor Track Team—Gym.

### 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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SATURDAY, DECEMBER 10, 1910.

The Tech wishes to thank those men who co-operated by purchasing coupons at the Convocation yesterday, and especially wishes to thank the Finance Committee and the representatives of the various organizations who devised and backed the movement.

As the Finance Committee says in its report: "We believe that The Tech is the most useful student activity, and worthy of universal support." We believe it too. That's why we work for it. That's why we give it our every spare moment. That's why our every thought, our every effort is to make it in every sense a success,—a financially sound, comprehensive, concise paper,—the invaluable news spreader of the Tech student. If you agree with the Finance Committee,—if you believe, heart and soul, in the purposes and aims of The Tech, give it your heartiest,—and steadiest support.

It is a well known and shameful fact that less than one-third of the student body takes an active part in the activities of the Institute. Of this third even a large number are "roped in" or forced into office by an unenthusiastic election. This means that over one thousand of the student body are not getting all the experience and training they might for the making of all-round, well-developed men. They are missing the direct contact with their fellowmen and the responsibility and experience in managing their fellowmen which is training the few to be successful leaders among engineers.

The Tech needs the active support of these now-indifferent men. It needs your support. Come and inquire about the work of The Tech. Don't wait to be "roped in." The news department needs men; the business department needs men. Don't be dead wood. Get some life, some enthusiasm into your blood. Get interested in something and work for it. Develop yourself to your highest efficiency of service. It will be a

great day for the Institute when every man is doing something to raise the social or athletic as well as the scholastic standard of Technology.

**COMMUNICATIONS.**

Editor of The Tech:

As I was passing along the corridor in Rogers Building the other morning an incident came to my notice which would have amused me if I had witnessed it at any other school than my own dear Alma Mater. An Assistant (I will tell his name if you wish it) who took his degree at the Institute last year, stepped up to one of the newsboys who sell The Tech and parted with a quarter of his month's salary, which he tendered to the boy, telling him never again to try to sell him a Tech. It was rotten, he said.

Now the Massachusetts Institute of Technology tries to instill horse sense into its sons, but this specimen seems never to have run across the term, much less to have assimilated it. Whether he was trying to make a hit with the newsboy and those about him by his lavish use of money, or to show his knowledge (?) of college papers, I do not know; but a man who has so little interest in the activities which help so much to stimulate the life at the Institute and maintain a spirit among the students is beyond my comprehension. Such a thing might come from a Freshman flushed with the pride of youth and inordinate with ideas of his importance on an important planet of an important system, but that an upper classman, much less a graduate—even if he were bred in Virginia, where hot-headed youth is rife—should be the author of such an act needs no comment—only tears.

B. V. D.

Editor of The Tech:

Dear Sir:—I note with regret that the clean, healthy, sanitary paper towels have been removed from the wash room and the dirty, disease-bearing linen ones reinstated. Perhaps it is true that the paper towels are not quite as satisfactory as the old-fashioned roller kind, but isn't it a lot better to suffer a little inconvenience than to subject oneself to the chance of contracting some illness? I believe that bad bacteria must hold a little carnival of delight when they find such a pleasant place to sojourn as one of these public wash room towels. Anyhow I do know of cases here at the Institute where the microbes have journeyed forth from the towels to the bodies of the persons using them with bad results.

Let's have the paper towels!

Yours very truly,

B. CAREFUL.

(Continued from Page 1.)

The meeting closed with a general discussion of the matter by those present, and a short talk by Mr. Shute explaining the method in use of teaching English to the immigrants.

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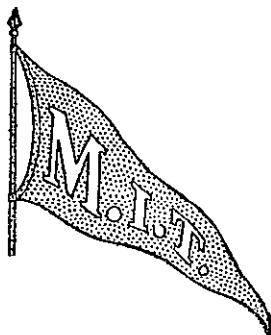
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**AERO CLUB MAY BUILD GLIDER SHED**

Club Is Invited to Compete in Intercollegiate at Squantum in the Spring.

A meeting of the Technology Aero Club was held at the Union last night to discuss various plans which would determine the future work of the club.

The meeting was opened by the president, who made a few remarks about the poor attendance of the members on the field when there were repairs to be made upon the gliders. The men seem ready enough whenever flying is the order of the day, but repairing does not appeal to them. He urged that the practical part was of as much importance as the flying, as a man must know how his machine is built and how to quickly make repairs.

A discussion as to the practicability of building a shed followed. Various sites were mentioned, but it was decided to have a further discussion of the matter at a later meeting.

A communication was read from the board of directors of the Harvard Aeronautical Society, inviting the club to compete in the intercollegiate glider meet which is to be held at Squantum in the spring. The club will consider this matter before taking action.

Mr. E. N. Fales, 1911, was elected to the engineering committee to take the place of Mr. Forrester, 1912, who has left the Institute.

**SOUTHERN CLUB ENTERTAINS AT TECHNOLOGY CLUB**

Prof. Arlo Bates Tells Southern Tales — Club to Hold Dance Next Term.

The Southern Club held a reception Thursday evening at the Technology Club. Prof. Arlo Bates read some of his delightful stories of the South, and in spite of the snow and the wind whistling through the trees on the campus, all imagined they were in the sunny land of Dixie. After the reading the Southern men outdid themselves in entertaining the ladies, and the Technology Club was brimful of Southern spirit (not moonshine). We all reckon everybody had a right time.

The next meeting of the club will be held in the form of a dance to be held some time the beginning of next term.

(Continued from Page 1.) campus at Cambridge and New Haven. But if you want to see the acme of all cigarette bazaars, just take a ride out Boylston street, Boston, any day at noon, and watch the fellows coming out of the Institute of Technology. I once asked a Tech professor if cigarette smoking was compulsory at M. I. T. 'Yes,' he replied, 'but the rule is not strictly enforced, for I know three students who do not smoke.'

(Continued from Page 1.) concerts. The orchestra, aware of the interest it is arousing, is practicing industriously, and rehearsals are designated for today, Monday, Tuesday and Thursday, with a possibility of one on Friday of next week.

**SHOULD THE PANAMA CANAL BE FORTIFIED?**

Pros and Cons of Question the Subject of Much Discussion.

COST OF CANAL \$375,000,000.

Convention of Second Hague Conference Protects Canal.

With the rapidly approaching completion of the Panama Canal, the United States government is confronted with the important question of the advisability of fortifying it. Many arguments, both for and against fortification, have been advanced by men who have given the subject extensive study.

The three strongest reasons for non-fortification are: First, that it is unnecessary, as a conflict with other nations cannot be reasonably expected in the future; second, that if war should occur, the convention drawn at the Second Hague Conference would afford ample protection to the canal. This convention provides that unfortified coast cities, ports, etc., shall not be bombarded from the sea. Thirdly, the heavy expense that would be involved.

Those who advocate fortification claim that a canal costing \$375,000,000 is worthy of efficient protection. They feel that the Convention drawn at the Hague Conference could only be enforced by us. The power of our navy is obviously doubled, and those arguing for fortification protest that such a valuable asset should be maintained at any cost.

From any point of view the question is not only of remarkable interest, but of vital importance.

As many States, and in fact the whole country's interests, are at stake, let us hope that the final decision will prove to be a wise one.

**CHESS CLUB MEETING TO BE HELD MONDAY**

The Chess Club will hold a meeting in the usual room of Engineering C Monday, at 1.45 P. M. This is a very important meeting, and it is hoped that every member will make it an especial point to be on hand. It is planned to arrange several matches in the near future if possible.

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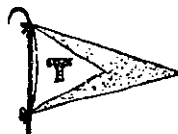
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**NOTICE.**

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

LOST—Jewelled Theta Pi Fraternity Pin. Inscription on back. W. E. Humphreville. Please leave at Cage for reward. (55-2t)

**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.

**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.**

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.

**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.

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Saturday Eve. Dec. 10, at 8, Popular  
 Prices, from 50c. to \$2.50

**IL TROVATORE,** In Italian,  
 by VERDI

Regular Prices from \$1 to \$5

Mason & Hamlin Pianos used

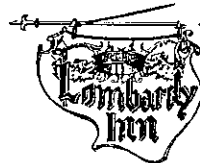
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