

# THE TECH

VOL. XXXI. NO. 72

BOSTON, MASS., WEDNESDAY, DECEMBER 20, 1911

PRICE TWO CENTS

## DEAN BURTON AND DR. ROCKWELL TO SPEAK

Will Tell Students About Hockey Team at Meeting Today.

Every man in the Institute is expected to come to the mass meeting which is to be held in Huntington Hall this noon in the interest of the hockey team. Dean Burton, Dr. Rockwell and several men interested in the team are to speak to the crowd, and a crowd it must be.

The team is to play their first intercollegiate game Thursday evening at the Arena. The team whom they have hopes of defeating are the celebrated athletes from Cambridge, who represent Harvard. Harvard has a strong team, but we have no weak one, and if our boys get the support of the students they will give the Crimson team a hard fight.

The management at the Arena have made it pretty clear that it is necessary to show them that the Tech team will be supported before they will get the same rights on the ice as the other more influential teams, and this is the chance to show them that we can support a team as well as any one else. Furthermore, the Arena management have conceded us a point by giving Manager Ranney of the hockey team a bunch of tickets in the centre of the auditorium, and are willing to give the M. I. T. A. A. a percentage on all the seats that are sold by Manager Ranney. These tickets have been distributed among the classes, and every fellow in the Institute will have a chance to get one, or two, and if every man in the Institute who has never seen the Tech team show our colleagues from Cambridge how to play hockey buys a ticket we can certainly show the Arena owners that we can produce a cheering section worthy of the greatest technical school in the country.

The Harvard team is quite strong in all positions, but the Tech team held them to a tie score in a practice game about a week ago. Gardner, at goal, is a hard man to shoot past, but unless he has a good and fast defense the speedy forwards wearing the red and gray will surely get one or two of the shots past him. Ranney, covering the cage for Tech, has developed.

(Continued on Page 3.)

## JOHN BIGELOW IS DEAD.

Father of Major Bigelow, Formerly of Tech.

John Bigelow, the eminent diplomat and author, died in New York yesterday at his home. Although more than ninety-four years of age, he had retained amazing vitality and mental keenness, and has been as much abreast of the times during his recent ailments as ever.

Mr. Bigelow is set down by his biographers as one of the country's most famous editors, authors and diplomats. He distinguished himself in all these activities, and although a man of great accomplishment, was more particularly a "critic of affairs," being sought on all sides for opinions and interviews.

It will be recalled that John Bigelow is the father of Major John Bigelow, Jr., former head of the modern language department at Technology.

## TECHNIQUE TO BE CO-OPERATIVE

Business Department to Give a Commission on All Advertisements Secured.

Technique, 1913, is rapidly assuming the shape of a real book and it has, even this early in the year, all the ear-marks of a fine book. The members of the board are putting in their spare time and getting some fine results in all the varied departments.

The business department have a proposition which they are bringing forward at this time which should appeal to everybody in the 'Stute especially at this time. They offer ten per cent. commission on all advertisements which come through Tech men.

Technique needs the advertising, and the money which they will pay when the contracts are signed up will surely be welcome in anyone's pocket. There is a big opportunity for men to get advertisements while they are at home on their vacations without doing much work. Here is the chance for Tech to help Technique and their own pockets at the same time.

## A. S. M. E. LECTURE.

Mr. R. E. Emmett Will Speak on Elec. Propulsion of Ships.

This evening, in Chipman Hall, a lecture will be given to the Boston branch of the A. S. M. E. by R. E. Emmett, to which the Mechanical Engineering Society of the Institute is invited. The subject of the lecture will be the "Electric Propulsion of Ships," a matter which has been under public discussion for a number of years.

Mr. Emmett is of the General Electric Company, and has made a special study of this subject for the last few years.

The screw and bevel gears have been tried but were found objectionable because of the great loss by friction. The government has tried this electric propulsion on battleships, and it was found that not as much power could be generated as by the methods now in use. However, they have a few smaller ships which are equipped with generators run by turbines, and it looks now as if electric propulsion will become a factor in modern naval construction.

The meeting will begin at 7.45 P. M. The entrance to the hall is just south of the Tremont Temple entrance. It is hoped that a large number will take advantage of the opportunity of attending this meeting as the subject is surely one of vital interest.

## COSMOPOLITAN DINNER

Will Be Given New Year's Day in the Technology Club.

The Cosmopolitan Club will follow its usual custom of holding a New Year's dinner, which will be up to the standard. It is planned to hold it in the Technology Club Monday evening, January 1st, 1912. It will facilitate the arrangements and be a great help to the committee if all members wishing to attend will leave their names at the Cage for the Secretary.

## CIVILS, SMOKE AND CIDER IN THE UNION

Gathering Shows Advantages of New Summer School—Every One Favors Project.

A crowd of over one hundred enthusiastic Civils greeted the speakers at the Civil Engineering smoker last evening and were well repaid for their efforts to attend. The occasion was one that will long be remembered as a banner gathering in the history of the society; the speakers were cheered to the echo and the whole affair overflowed with good fellowship.

Professor Spofford was the first speaker and was introduced as the chairman of the evening. He began by telling about the need of a summer school and under what difficulties field work had been carried on in Boston. The department began to push the matter before the corporation five years ago but nothing could be done at that time. There was, however, an Alumni committee appointed which finally brought about the purchase of the hundred acre plot last winter.

Mr. Metcalf, '92, was then introduced and described the efforts of the committee in selecting the site and the ways and means of so doing. They decided against several schemes for co-operation or combination and finally settled on a camp for C. E. field work solely. Members of the Faculty examined various sites and finally decided on the one at East Machias.

The next speaker, Mr. Bemis, '93, said that he was taken by surprise when he was asked to speak, but he continued, saying that the training and intimacies formed at a summer camp were of more value than technical knowledge.

Mr. Fay, '93, the third speaker for the Alumni, indulged in some advice. He said that the civil engineer is not a handler of facts and material, but a master of men. To be able to handle men one must be a good "mixer," and the best place to practice this is at a summer school. Mr. Fay went on to describe the excellent features of the school and predicted that every man in the course will go

(Continued on Page 2.)

## RELAY TRIALS.

First Tryouts for Both Teams to Be Held Saturday in Gym.

The preliminary trials for the Varsity relay teams will be held in the Gym Saturday afternoon. The prospects for the team are very good and the competition is so strong that no one can pick even a possible team. The men have been showing up in pretty good shape, and if they keep it up the chances for the track team in the spring will be very good. Several men have shown an interest in high jumping, and as this is an event that we have been weak in, with the exception, of course, of Captain Dalrymple, who we will lose by graduation in June, it is a good sign.

The men who seem likely to lead in the trials for the short relay are: Thompson and Guething, both members of last year's team; Oettinger, Benson, Munch and Strachan. These men are all running a very strong race and are taking the corners well.

## "RAMBLES OF A DAM BUILDER" BY COBURN

Or Travels of Tech Club During Smoker—Most Enjoyable Talk Illustrated.

A crowd which more than filled the living room of the Technology Club last night "rambled" with H. L. "Pa" Coburn, '98, from the royal palms and coconut groves of tropical Porto Rico all over the country to the northern extremes, both in the East and West. His remarks were for the most part descriptive of the series of most beautiful and interesting lantern slides which he showed from his own negatives.

Starting with a prospective site in Northern Mexico, he carried the audience through Utah north to Wyoming; then south again down the Snake River in Idaho, to Porto Rico; then up to Oregon, back to Baltimore, Northern Vermont, Canada, to the word "No more pictures" from the man at the lantern.

Ever filled with a running fire of anecdote, story and word picture of the humorous side of things, he held the closest attention for an hour and a half, making the "Rambles of a Dam Builder" seem one of the pleasantest and most interesting of occupations.

Much of his work has been on irrigation projects in the Far West, and of his work and the country he gave a strong impression to men who can take the greatest personal interest. Of the work of irrigation and the irrigated country he spoke rather disparagingly, and one surely would never settle there on the strength of his talk and pictures. The country is not only wild and difficult of cultivation, but it is ragged and lonesome in the extreme. The farms as they are called are little favored bits of lowland lying in the most inaccessible places, very unattractive indeed.

Of Porto Rico, on the other hand, he spoke in a very encouraging manner, and even said that he should go back there some day for a better acquaintance. He said that it was a country of most beautiful scenery, capable of great development, certain of rich return on money invested. Money paid for a few acres of coconuts would support one in luxury, with nothing to do but collect pay from the purchaser of the nuts.

## CALENDAR.

Wednesday, December 20th.  
A. S. M. E. Meeting—M. E. Society to Attend—Chipman Hall.  
6.00—Hockey Practice—Arena.

Thursday, December 21st.  
Junior Prom Ballots Due.  
M. E. Society—Chipman Hall.  
1.30—T. C. A., E. R. Anderson—Union.

8.00—Tech vs. Harvard, Hockey—Arena.

8.00—Lowell Lecture on Architectural Acoustics—Huntington Hall.

Friday, December 22nd.  
Tech vs. S. T. S., Basketball—Springfield.

5.00—Lowell Lecture on Milk—Huntington Hall.

6.00—Hockey Practice—Arena.

Saturday, December 23rd.  
Tech vs. C. C. N. Y., Basketball—New York.

Exercises suspended until January 1st.

MASS MEETING HUNT. HALL TODAY 1 P. M.

# THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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 WEDNESDAY, DEC. 20, 1911

IN CHARGE OF THURSDAY ISSUE.  
 EDITOR—Waltt, A. H., 1914.  
 Associate—Lewis, Jr., M. B., 1914.

The big Hockey Mass Meeting will convene in Huntington Hall at 1 P. M. today. If you are not there you should have some good excuse for not coming. The success of the Hockey Team depends upon your presence there, and also at the Arena Thursday evening. Harvard has a strong team and every man is needed to root for a Tech victory.

Dr. Rockwell and Coach Clifford are going to take their valuable time to be present at the meeting and point out the various phases of the help that the students can give the team. When these men give their time freely is it not up to us to take a few minutes from our lunch hour and hear what they have to say? Huntington Hall should not be large enough to hold all that will attend.

The Christian Association have arranged to have a State street lawyer speak before them in the Union tomorrow noon. This is a new innovation and departs considerably from the strictly religious and for this reason even the most biased can have no excuse for not attending, other than a previous engagement, and very few have engagements at that time of day, so all predictions would naturally point to a record attendance.

### MECHANICAL LECTURE.

Mr. Collins Will Talk on "Power Plant Efficiency."

Tomorrow evening, in 11 B, at 4 o'clock, Mr. R. B. T. Collins will give a talk on "Power Plant Efficiency" before the Mechanical Engineering Society. Mr. Collins is a well-known mechanical engineer of the Commonwealth Edison Company of Chicago, and is well able to talk on this subject. He will make a special feature of Power Plant Efficiency and Specifications for Power Plants and Boiler Rooms. Mr. Collins has had 18 years' experience in Texas, California and other parts of the country, and has made a specialty of oil-burning furnaces and oil burners. At the present time he is with the Stone & Webster Company.

It is hoped that a large number of members of the society will be present to hear one of the greatest oil experts of the country.

Buy your ticket for the Tech-Harvard hockey team at the Cage before Thursday, and thereby help the team both financially and morally.

## DR. ROSENAU LECTURES ON PASTEURIZATION

### One-Half of Boston's Supply Is Treated—Makes Infected Milk Safe.

After Dr. Rosenau's talks of the last two weeks about dirty and infected milk he took up yesterday "Pasteurization," a method by which infected milk can be made safe to drink. The need for such a process was realized by the audience when the lecturer said that it has been estimated that if New York city's supply could be purified the death of six hundred babies a year would be prevented. The only possible way to keep it clean is to establish an inspection system covering the supply from the farm to the consumer's house. But it is not possible to avoid all dangers by any inspection, and there must, therefore, be some method of making milk as safe as is possible.

Pasteurization is the cheapest, simplest, most effective and least objectionable way of accomplishing the result. It is an acknowledgment that raw milk is dangerous. It is not elaborate; it is not perfect; it is not sterilization; but it does kill the dangerous bacteria that are likely to be in milk.

The method of Pasteurizing is simple, and Dr. Rosenau prefers the title "Heated Milk" to the present one. The term means that the milk has been raised to 140 degrees Fahrenheit, and is supposed to have been kept there twenty minutes, then rapidly cooled and kept so. Warm milk is a more congenial home for germs than cold.

Pure milk is better than purified milk, but we are forced as a public safeguard to demand the latter if we cannot get the former. Pasteurization should not be left to individual caprice, but ought to be done under State supervision. Now about half of Boston's supply is Pasteurized before sale by the big contractors. The treated milk can not be distinguished at all by taste or smell, and chemical changes are not appreciable. It is possibly a little more nourishing than raw milk. The process is hard to do right, and Dr. Rosenau says "to give the problem to the average cook is suicidal." There are three methods of proceeding at dairies; first the flash method, in which the milk is cooled immediately after flowing over heated plates; the second when it is held in tanks for twenty minutes before chilling, and best, it is often heated after being put in the bottles. The last method is becoming general.

Before showing a few interesting slides Dr. Rosenau summed up the whole subject as follows: Pasteurization is parboiling; it kills harmful germs; it leaves milk as palatable and as nutritious as raw; it should be done at a temperature no higher than 148 degrees; should never be done twice, and should be done under the health officer's supervision.

### CIVIL ENGINEERING MEET

(Continued from Page 1.)  
 not because he has to, but because he wants to.

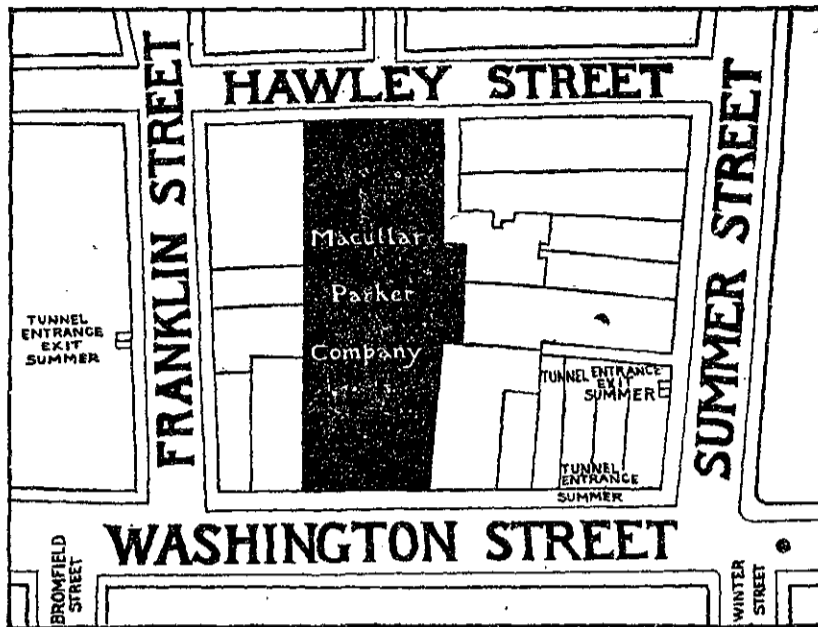
Professor Robbins went on with the description of maps and slides, and was followed in turn by Mr. Kilham, the architect, who explained the plans and sketches of the buildings, as well as the start of the work.

Dean Burton concluded the list of speakers, and was greeted with most enthusiastic applause. He told of his long connection with summer schools and his gratification at the summer school taking its present permanent form. He enumerated the varied advantages of the school, its healthful climate, practical training and intimate associations, and in conclusion congratulated the students on having such an opportunity offered them.

After an enthusiastic vote of thanks to the speakers of the evening, the

(Continued to Page 4.)

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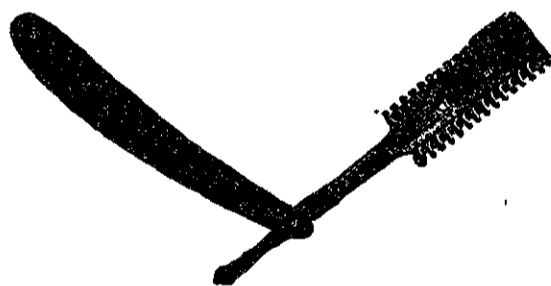
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## CHRISTMAS REUNION OF 1911 GRADUATES

Notification Sent by Secretary Denison for Meeting in Boston.

With characteristic life and energy the Class of 1911 is to hold the first of their reunions at this early date, only six months since the day of their graduation. This will take the form of a jollification to be held in the Copley Square Hotel the day following Christmas, the principal feature of which will be one of the features for which the hostelry is famous.

The following postal has been sent out by the secretary to all the members of the class:

"49 Institute Road,  
Worcester, Mass.,  
December, 1911.

Fellow Member of 1911:

"I am arranging for an informal reunion of our class for Tuesday evening, December 26, 1911, at 6.30 P. M., in the Copley Square Hotel, Boston.

"Dinner will be served at \$1.25 per plate, following which there will be a speaker or two and then a general good time.

"I am planning this for Christmas week, particularly for those members whose homes are near Boston, or who have located near there.

"Please reply on attached card before Saturday, December 16.

"ORVILLE B. DENISON,  
Secretary, 1911."

Secretary Denison writes that he has already more than fifty replies, but he feels that there should be a large number of men who may answer at the last minute. These are requested to fill out and send in their cards just as soon as convenient.

## PROF. SWAIN'S LECTURES.

Professor George F. "Pop" Swain, '77, late of the Institute Civil Engineering Department, and now at Harvard, gave a very interesting lecture on "The Relation of Forests to the Flow of Streams," and also one on "The Quebec Bridge Disaster," before the Washington University Chapter of Sigma Xi, in St. Louis, during his recent trip through the Middle West.

## AN OUNCE OF PREVENTION.

The Adolph S. Lundin scientific system of Turkish Baths is the only natural and hygienic way to prevent that on-coming cold. Established nearly twenty years ago under the Tremont Theatre. Special rates to a party of six, five dollars.

## HOCKEY GAME.

(Continued from Page 1.)

oped into a strong man and is hard to beat. Eichorn is heavy and is playing a good game, as is Whittlesey, who covers the same position in the back field. Sloan is always good and fast and knows how to shoot. Stucklen, brother of the fast player who was on the team last year, is very good and will give the forwards of the Crimson team a fine run for their money.

Besides seeing the game, every man that goes is entitled to skate afterward, and this alone is worth the price of admission. Several cheer leaders will be on hand, and if the crowd comes the roof of the building will vibrate with the peals of "We are happy," etc.

Whether you can come to this game or not, be sure to come to the meeting today in Huntington Hall and hear what the leaders of two branches of Institute life, the Dean, head of studies; Dr. Rockwell, head of athletics, also "Doc" Sloan, the captain of the team.

The lineup of the teams will probably be as follows:

Tech.	Harvard.
Storke, r. w.....	r. w. Palmer
Sloan, c.....	c. Sortwell
Hurlburt, r.....	r. Duncan
Yereance, l. w.....	l. w. Reeves
Stucklen, c. p.....	c. p. Wingate
Eichorn, p.....	p. P. H. Smart
Ranney, g.....	g. Gardner

## XMAS GIFTS

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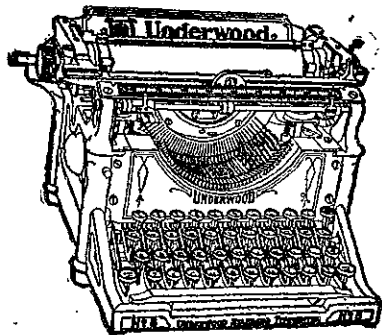
**ENGINEERING MEET**  
 (Continued from Page 2.)  
 meeting broke up, and the men spent  
 an hour in enjoying a general good  
 time, meanwhile consuming a gener-  
 ous amount of the excellent refresh-  
 ments that were provided.

**LUNDIN'S TURKISH BATHS \$1.00.**  
 Under the Tremont Theatre for men;  
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**FACULTY NOTICE.**

December 15, 1911.  
 The exercises at the Institute will  
 be suspended from December 25th to  
 December 30, inclusive.  
 By vote of the Faculty instructors  
 are requested to send to the Dean the  
 names of all students who are absent  
 from exercises on Saturday, Decem-  
 ber 23rd, and on Monday, January 1st.  
 A. L. MERRILL, Secretary.

**WANTED—** Second-hand Franklin  
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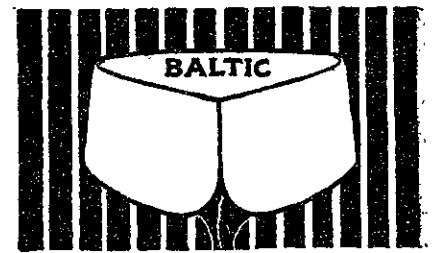
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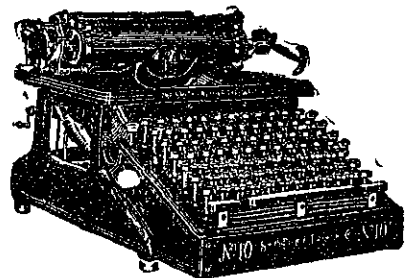
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