

# THE TECH

VOL. XXXII. NO. 28

BOSTON, MASS., FRIDAY, NOVEMBER 1, 1912

PRICE TWO CENTS

## BIG WILSON PARADE FOR TOMORROW NIGHT

Technology Delegation to Wear Sash and Cap—Torches and Red Fire.

Plans for the Woodrow Wilson College Men's parade in Boston tomorrow night have been rapidly progressing, so that the turning out by the different representative colleges of New England, it is expected, will be one of the greatest ever seen in this city.

This parade will be an intercollegiate Wilson demonstration, and only college men will be in line. Each college will be represented by its students in some form of distinctive uniform or regalia. The Technology branch of the organization will be attired in sash and mortar board hat. Each man will be furnished with a torchlight which the marchers will keep as souvenirs. There will also be distributed throughout the line red and green railroad rockets, which it is expected will set off the marching column in splendid fashion. Transparencies and banners will be carried by members of the club, and a band will serve to quicken the steps of the file.

Tickets entitling the holder to a complete regalia are being sold by the Wilson Club members for 50 cents, the price of the materials alone. There are a few more uniforms left, so that if any men wish to be in on the arrangements the club urges immediate signification of joining in the demonstration. The place and time of the distribution of the uniforms will be announced in THE TECH tomorrow.

## FRESHMAN MEETING.

Appointment of Committees to Be Announced.

A meeting of the Freshman Class will be held at 1 P. M. today, in Huntington Hall, the purpose of which is to make the final arrangements for Field Day. The various committees necessary for Field Day will be appointed at this meeting, as well as those on Ballots and Arrangements. Arrangements in regard to this matter should be presented at this meeting. The report of the treasurer will follow the transaction of the routine business, and the managers of the various teams will give short talks on their needs.

More money is needed in order to meet the expenses of Field Day, and it is asked that all class dues in arrears be paid up before this time.

## MUSEUM OF FINE ARTS.

Professor Seaver to Lecture Sunday Afternoon.

Sunday afternoon, November 3 there will be two lectures with docent services at the Museum of Fine Arts, which all Tech men are cordially invited to attend. In the department of paintings, Mr. Morris Carter, Librarian of the Museum, will speak on "Early German Pictures." This lecture will be held in the Panel Picture Room at 3 o'clock. In the department of Classical Art Mr. Henry L. Seaver, assistant Professor of English at the Institute, will speak on "A Roman Portrait," this lecture to commence at 3.45 P. M.

## W. B. SNOW SPEAKS TO THE T. C. A. AT UNION

Told How Friendships Made Here at Tech Are Valuable in Later Life.

Those who gathered in the Union yesterday noon to hear the T. C. A. speaker were first urged by Secretary Talbot to come out and help in the social service work and "big brother" work in connection with the Juvenile Court. He then introduced the speaker, Walter B. Snow, who received his degree in the Mechanical Engineering Course here at the Institute in 1882, whose subject was, "Making Tech Spirit Count."

Mr. Snow said that he thought the spirit here in Tech was of a better sort than the more exuberant type in the colleges where so much attention is paid to athletics. Here, he pointed out, it is firmly grounded by the nature of the courses. He showed how a man who had a technical education was better fitted for work of any kind after leaving the Institute, because he could apply his true engineering and confident knowledge to his business.

In telling of how Tech men were better fitted to serve their fellow men in the Legislature and other departments of the government, he enumerated prominent men of his acquaintance who had graduated from the Institute, and who have done a great deal of good work in connection with the betterment of civic conditions in all parts of the country.

Mr. Snow then went on to show how the friendships acquired here at Tech are of the greatest possible value to us in our life after leaving the Institute. It is of the greatest benefit to have a knowledge of human nature, which, he says, can best be derived from the work in connection with the humanic part of the T. C. A. This knowledge is a great help to the engineer who has occasion to come in contact with and to manage all kinds of men in his field of work.

## JUNIOR BASKETBALL.

Candidates to Report Monday and Three Times a Week.

On Monday, November 4, the Junior basketball team starts practice at the Gym. Practice will be held on Mondays, Wednesdays and Fridays, at 5 o'clock. Manager Ruoff requests it made known that all Juniors are eligible to come out for practice and will be welcome.

The entire team of last year is back and ready for play. This team last year made a record, in that every game played, seven in number, was won. There is no Varsity this season, and the squad will try for another similar record.

The seven men that formed last year's remarkable team, and who will report Monday for the first time this year, are: F. W. Williams, T. F. Comber, W. G. Tirrell, C. F. Ruoff, C. D. Bryant, C. E. Fox and W. H. Price.

The annual flag rush at Tuft's College Tuesday resulted in an overwhelming victory for the Sophomores over the Freshmen, who were not able to place a single flag in any of the trees.

## WILSON CLUB DEBATES BULL MOOSERS TODAY

Professors Clark, Pearson and Robinson Are Judges—Interest High.

The much-talked-of debate between the Woodrow Wilson Club and the Progressive Clubs of the Institute, the result of a challenge by the Bull Moose organization, will take place this afternoon at 4.15. The field of contest will be Room 6 Lowell. An unusually able set of judges have been selected in the persons of Professor Clark of Boston University, and Professors Robinson and Pearson of the Institute.

The debate will be hotly contested by the ablest speakers and arguers of both of the opposing sides. The men to take the platform in behalf of the Wilson Club are H. D. Peck, A. J. Pastene and R. L. Thomas. For the Progressive side of the argument, R. B. Kennard, W. E. Lucas and Alden Crankshaw will serve. There is to be one alternate on either side.

For a question, the debaters have decided to take national issues in the coming presidential campaign. State and city issues or aspects of the election will be barred.

L. R. Talbot of the T. C. A. will preside at the debate. Much interest has been aroused by the news of this affair, with the result that members of the Faculty and students all over the Institute have signified their intention of being present.

## SOPHOMORE TIME TRIALS.

Final Selection of Twelve Men to Be Made Today.

This afternoon the final time trials for the Sophomore relay team will be held at the Field. The twelve men who will run on Field Day will be picked, and as there are not very many contestants out, everyone turning up will have a good show of making the team.

Coach Kanaly expects some of the men to make pretty fast times as most of the men now out can circle the track well under 26 flat. Barry, Curtis and Spencer have been making good times lately, and are expected to show up strong today. All men are going to try and equal the fast time made by the record-breaking team of 1914 a week from today, and their work this afternoon will show up their chances. Most of the men have the flag passing down cold, and they hope to gain several seconds over the Freshmen by this alone.

## BANJO CLUB REHEARSAL.

The Banjo Club held its regular rehearsal in the Union yesterday, at 5 o'clock. Coach G. L. Lansing was present and gave the club a very catchy medley. The showing of the club was very poor, however, owing to the small attendance. But six men turned out, so that not much progress could be made. Coach Lansing is desirous of having the men come more regularly, in order that this year's club may keep up the standard of those of former years. The next rehearsal will be held on Monday, and a good attendance is desired.

## J. B. CONNELLY TALKS IN UNION THIS NOON

Progressive Club Secures Noted Author and Magazine Writer as Speaker.

The Progressive Club will have the opportunity of hearing Mr. James B. Connelly speak on the "Progressive Campaign" at 1.30 P. M. today, in the Union. Besides his political renown, Mr. Connelly is known throughout the country as a writer of sea stories, and has contributed many articles to Scribner's and other prominent magazines. He is a candidate for Congress on the Progressive ticket from the 12th Congressional district.

Mr. Connelly has held various government positions, was famous as an athlete, and served with distinction in the Spanish-American War. In 1908 he made the trip around the world with the American fleet by special order of the government. Since that time he has been active in the field of special investigation of economic conditions. Some of Mr. Connelly's most popular books are: The Crested Seas Out of Gloucester, Deep Sea's Toll, The Seiners, and An Olympic Victor. He is also the author of two boys' books, besides several hundred articles in the leading magazines and newspapers. Some of his stories have been translated into foreign tongues.

## TECH ASSOCIATIONS.

Formation and Work of the Northwestern Association.

The Northwestern Association of the Institute of Technology was founded in 1887, and originally drew its membership upon the whole country west of Pittsburgh. During recent years Technology Associations have been formed in many cities in the Middle West, and the membership at the present time is about 425.

The headquarters of this association is at Chicago, and the majority of the members are in this city or its vicinity. The Association holds informal meetings at various clubs (including at least one meeting outdoors in the summer time), during the year, and the annual dinner occurs towards the end of February or early in March.

The annual meeting is held in June or July, at the regular outdoor meeting, and officers are elected at this time. Regular luncheons are held every Thursday at 12.30, at the Grand Pacific Hotel, English room. The Association publishes bulletins from (Continued to Page 4.)

## CALENDAR.

Friday, November 1, 1912.

1.30—Progressive Club Rally—Union.  
1.00—Freshman Meeting—Huntington Hall.  
4.00—Mandolin Rehearsal.  
4.30—Junior Class Ballots Due—Cage.  
4.20—Progressive-Wilson Debate—6 Lowell.  
Freshman Time Trials.  
Rally—Union.

Saturday, November 2, 1912.

7.30—Progressive Club Forms for Parade—Copley Square.  
8.00—Wilson Club Parade.  
8.00—New England Wireless Association—23 Walker.

# MOOSE RALLY 1.30--UNION--1914 BALLOTS

# THE TECH

**MANAGING BOARD.**  
 A. T. Gibson, 1913..... General Manager  
 S. H. Taylor, 1914..... Editor-in-Chief  
 A. H. Waltt, 1911..... Managing Editor  
 B. E. Adams, 1915..... Business Manager

**NEWS BOARD.**  
 E. W. Mann, 1914..... Athletic Editor  
 M. Paris, 1914..... Institute Editor  
 P. J. Munn, 1915..... Institute Editor  
 H. Rogers, 1915..... Societies Editor

**NEWS STAFF.**  
 S. Berkowitz, 1915..... L. Lamb, 1914  
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Office, 42 Trinity Place.  
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FRIDAY, NOVEMBER 1, 1912

## THOUGHT METHODS.

How much work a student can accomplish depends very largely upon whether he does it promptly. More time and energy are lost by delay, by self-distrust, by self-pity and by shiftlessness, generally, than are needed in most cases to do all work required and to leave an abundant margin for play. Many a student has gone to pieces in his work because instead of doing it at once he has demoralized his mind by a preliminary process of dreading his task.

While we are still in this formative period of our lives we should take advantage of every opportunity which is presented to us for improving our methods of work and play, and beyond all else our methods of thought. It is very easy to put off until a later time the task which in itself is not laborious once well begun, and in so doing we are gradually forming a thought habit which will be entirely retrogressive in its characteristics.

With the procrastinating habit comes the worry over undone or unfinished work, which is still more retrogressive. We procrastinate and then we worry. We declare we will not procrastinate but we find ourselves still doing it in little ways, in other words, it creeps in unconsciously until we find we are back to the old position, with all progressive thought blocked, all peace of mind gone, and, worst of all, we find our personal character is becoming much impaired.

We are blue, yes very blue, over the dismal failure we seem to have made of matters thus far, and we are rightfully so, only, however, for a long enough time to realize the actual condition of our minds, that is to analyze and open to close scrutiny the real mental condition that we are in. Then it is that we should rise with the courage of our convictions and strike with the death blow of resolve every cause for such a relapsed mentality.

We should strive earnestly for the measured beat of life in everything that we do and realize the infinite truth of the statement that the present moment is above all the most important thing for any of us. It is now that we can begin to repair our damaged thought methods, now that we can begin to practice the truths, the more spiritual ideas, which have been made clear to us in our own experience, both moral and mental, and in this practice we can know that we are becoming constantly more alive to our moral position. We are becoming energetic, progressive, thoughtful people and are making ourselves realize with the happiness of immolation of our pet thorns and heartburns, what the conscious, constant capacity of being a man really means.

No doubt the five-week reports will be sure cures for insomnia in the case of a few Freshmen.

## SIR WILLIAM RAMSAY PRODUCES HELIUM

Lowell Lecturer Also Describes Striking Properties of Argon

Sir William Ramsay gave the fourth of the Lowell Institute lectures on "The Discovery of the Gases of the Atmosphere" last night.

He first showed the spectra of argon, nitrogen, carbon dioxide and hydrogen, and explained how the elements could be identified through the light which they emit when rarefied and subjected to an electric spark. He showed his audience the peculiar phenomenon which a few gases possess of having several distinct spectra. He took as an example argon, which is particularly prominent in this respect. Its light changes from a red-violet under comparatively low voltage to a brilliant blue under the higher voltage that was obtained by placing a condenser in the high potential circuit. Some physicists think that perhaps the argon is a mixture of closely related elements similar to the triad of the platinum group of the periodic table, but no satisfactory explanation has been found.

Then he described the search for other sources of helium than the air. His assistants examined the nitrogen contained in peas, as a typical plant substance, and that contained in a dried mouse, as representing animals, and in neither case was any argon found. When mineral waters occurring at the more prominent watering places of England were examined, argon was found, as was helium also.

He told of the work done to determine just how much argon was contained in the air, and he showed that from the figures obtained the difference between the densities of chemical nitrogen and atmospheric nitrogen could be brought into complete harmony. The atmospheric nitrogen contains 1.18 per cent. of its volume of argon.

Sir William Ramsay then outlined the proof that argon is an element whose molecules are monatomic. He described the importance of determining the ratio of specific heat pressure to that at constant volume. Argon, with a ratio of five to three, falls into the class of monatomic gases.

For a long time efforts were made to make argon form compounds, and the whole list of powerful reagents was tried, ending with the sparking of argon with elemental fluorine. Sir William Ramsay, feeling that perhaps the compounds might be endothermic, that is, formed with the absorption of heat, and therefore more stable at high temperatures, tried sparking substances with argon. To save the products from decomposition he surrounded the tube with liquid air. No compounds have as yet been discovered, however.

Sir William then took up the element helium. He described its discovery in the sun by means of the (Continued on Page 2)

## FRESHMAN RELAY TEAM.

Seven Men Make Team—Five Are Tied—Further Trials.

At the Field, yesterday afternoon, were held the final trials for the Freshman relay team. As Burton, Reed and Adams were not there, Coach Kanaly will give them their trials today. It is desired that these men will come out today as it is the last day on which they can take the trials.

The following men made the team: Comisky, Hine, Lieber, Lumas, Klintert, Kittredge, Tapley. The following are tied: Edwards, Dean, Page, Callahan and Hayes. More trials will be held this afternoon for these men. Shepard, Murden, Millis, Wooley, Ober and Goldstein are to take further trials today.

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**Pinkos**

College Tailor  
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 Boston

Guess I'll have to see "Good Old Burke the Tailor" pretty soon.

That big brother of mine told me to be sure to call on him at 18 School St., or to see Tom Hayes at 843 Washington St., as soon as I landed in Boston, and the bunch here tell me that was good dope.

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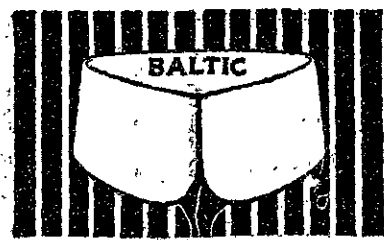
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**T. C. A. WANTS MORE  
MEN FOR BOYS' WORK**

**Boston Juvenile Court Needs  
Twelve Workers—Men Need-  
ed For Boys' Clubs.**

The T. C. A. announces that it is now ready to place men who promised last Spring to act as "big brothers" to boys who have been on probation at the Juvenile Court. This work has not been started before owing to the fact that the chairman of the committee, Ellis W. Hartford, was obliged to stay out of school this year on account of sickness. Now, however, a new chairman has been appointed, in the person of Francis B. Morton, '13, and the work will start at once.

Those who agreed to take up this work are asked to see the secretary of the T. C. A., Mr. Morton, Franklin Hutchinson or L. E. Best, '15, at once and make arrangements to meet Judge Parker or Judge Leveroni, so that they may be put in charge of some boy. These men will be put to work as fast as they apply.

The Boston Juvenile Court will use twelve men in this work. The twelve were secured last Spring, and unless they back out now no more men are needed at this place. However, a few more men may be added for work in connection with the Roxbury Court, and others at the Boston Newsboys' Club. Any men who have not been asked to help and who are interested are urged to speak to the T. C. A. secretary and boys will be found for as many as possible. This is a most interesting line of work, and as it requires less time than most forms of social service, it is believed that many Tech men will wish to avail themselves of this opportunity to help some one else.

Three more men are still needed to take charge of boys' clubs at the Italian center in the North End. Four or five more men are needed to report at Garrison Hall at 11 o'clock Saturday mornings for six weeks, beginning November 9. A light luncheon will be served, after which the men will have charge of boys' club meetings, followed by swimming contests or checker tournaments. The work will be over by 2 o'clock, leaving nearly the whole afternoon free.

Other men are needed to take High School boys on "hikes" on Saturday afternoons.

A meeting will be held Saturday evening at 7.30 at Ford Memorial Branch, Y. M. C. A., 1173 Tremont street, to which are invited all men interested in boys' work. Definite plans will be made then for the classes. Any men who are unable to attend the meeting but want to help are asked to see the T. C. A. secretary and make arrangements.

**RAMSAY LECTURE.**

(Continued from Page 2.)

then newly invented spectroscope. Dr. Hillebrand, while investigating some ores of uranium, found gases which he classed as mostly nitrogen. The gas, however, was largely helium, which Sir William Ramsay identified in them for the first time. Thus the existence of terrestrial helium was shown. Later investigations developed the interesting fact that the helium is contained only in minerals also containing thorium or uranium. The lecturer actually produced helium on the lecture table, and identified it through its spectrum, which is a brilliant yellow. He exhausted the air from a vacuum tube by a mercury pump, and showed the audience the characteristic light of nitrogen. Then he chilled a tube containing wood charcoal by applying to its exterior a Dewar bulb half-filled with liquid air. The tube was connected to the vacuum bulb, and as the charcoal at that temperature absorbs completely all gases except hydrogen, helium and argon, he was able to remove all the gases from the system. Then he produced some helium by heating to red-

(Continued to Page 4.)

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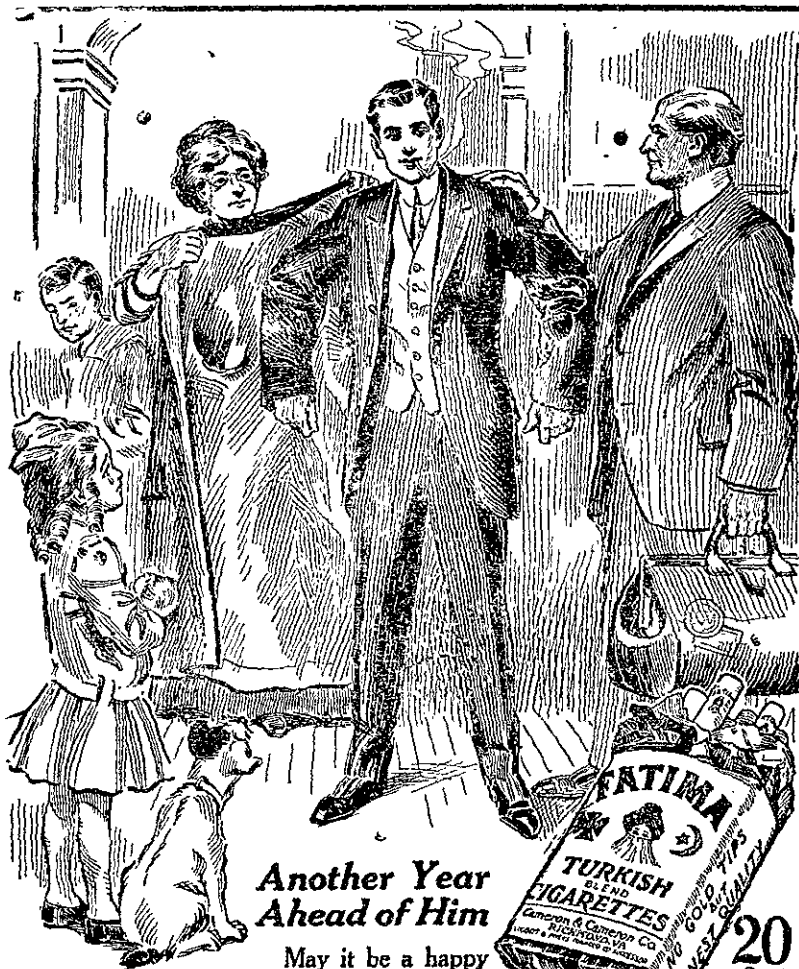
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These Shirts in a large assortment of patterns and colors—White Grounds with Black, Lavender and Tau Stripes, also Colored Grounds of Blue Gray, Tan and Lavender, At..... **\$1.00**



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**NOTICE.**  
All Freshman Tug-of-War men must be at the Gym on Saturday at 1 o'clock. This meeting is very important as the members of the team will be chosen. (Fri-Saturday)

**FACULTY NOTICE.**  
Candidates for Graduation.  
October 28, 1912.  
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, 1913.  
A. L. MERRILL,  
Secretary of the Faculty.

**STUDENT VOLUNTEERS**—Give your names to L. R. Talbot, T. C. A. office.

**PRECISION OF MEASUREMENTS.**  
The lectures in Precision of Measurements for entering College Students will be held on Mondays and Fridays at 4 P. M., in Room 23, Walker Building, during the first five weeks. (8-11)  
H. M. GOODWIN.

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**RAMSAY LECTURES**  
(Continued from Page 3.)  
ness a tube-containing uranium ore, which was also connected with the vacuum bulb. After a few minutes the bulb showed on the application of the electric spark a light characteristic of helium, although the presence of a trace of hydrogen tinged the yellow a slight pink.

**TECH ASSOCIATION**  
(Continued from Page 1.)  
time to time, announcing meetings, speakers and other items of interest to the members. A directory of all members, with addresses and business, is also published, and may be obtained from the secretary.

**LOST**—At Tech Field, an open-faced gold watch with H. R. B. on back. Reward if returned to 16 Exeter street. (28-2t p)

**LOST**—A 10-inch Slide Rule, in the Union, Monday, Oct. 28. 1.30 to 2 P. M. Return to Morrill, '14, for liberal reward. (28-2t p)

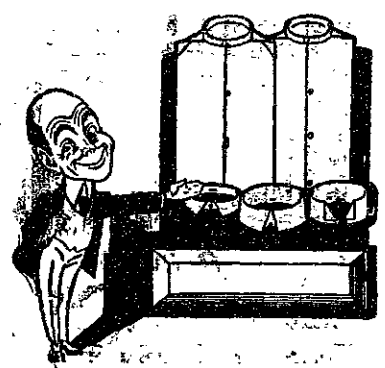
**NEXT SATURDAY, NOV. 2,** is Emerson Night at Champagne's All-College Dancing Parties, 44 St. Botolph street. All Tech men and their ladies are cordially invited. FREE PUNCH.  
(Tues. Oct 29-Friday, Nov. 1)

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Assets other Boston Trust Co.'s (Sept 4, 1912)	170,000,000
Combined Assets all Boston Trust Co's.	\$267,000,000

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Drawing Instruments and Materials,  
Fountain Pens Text-Books  
Tomorrow -- Friday Night

**Special Dinner**  
..at..  
**Tech Union Dining Room**  
Good Dinner Music Flowers  
Good Service  
—ALL COME—

**Don't!!!** Forget the address...  
We make a special effort to win the esteem of Tech men.  
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