MISS MARION SUNSHINE
Of "Broadway to Paris" Company.

MISS SUNSHINE INTERVIEWED BY THE TECH
She Thinks That Tech Men and Technology Are Quite the Best Thing.

SIR WILLIAM RAMSAY GIVES LAST LECTURE
He Finished the Description of the Gases of the Atmosphere Last Night.

CLASS TEAMS EAGER FOR AFTERNOON FRAY
Events Start at 2.15 With Tug-of-War Freshmen to Have Band.

This morning finds the class teams in the best of condition and humor. Yesterday the Freshman football team, so long a light-weight effort, which included a short time drill. Both teams reported at the Field, but nothing was done except that they received bug-downs from the track teams. The Freshmen tug-of-war held no practice and popular medallion A. G. Ranney, C. D. Bryant, A. T. Fryman, W. S. O'Brien, E. H. Raynor, R. W. Weeks.

Field Day Officials.
Complete List of Men Who Have Charge of Afternoon Program.


The tug-of-war members are: T. H. Hoag, C. E. Fox, M. H. Williams, G. W. White, E. L. Sutherland, H. B. Raynor.

Athletics cost Yale about $100,000 last year and Harvard $175,000.

MISS MARION SUNSHINE, Of "Broadway to Paris" Company.

Advisory Council: Issues Regulations

Rules for Field Day Must Be Observed — Dinner Held Tomorrow Night.

The following regulations for Field Day have been issued by the Athletic Advisory Council:

No one will be admitted without a ticket or a badge. Officials and marshals will be provided with badges, and competitors will receive tickets through the managers of their respective teams.

The following rules must be observed by spectators, substitutes, officials, marshals and others:

During the football game only the players shall be permitted to enter the field. Substitutes and coaches will not be allowed to approach nearer the side line than fifteen yards, and then only on the north side of the Field (opposite the north grand stand). During the Relay Race, only the officials and those directly connected with the race will be allowed on the Field. During the tug-of-war trials only the team members and officials connected with this particular race will be allowed on the field. Referee and the officials connected with-War trials only the teams and officials in connection therewith will be allowed on the field. All participants on Field Day, including officials, managers and competitors, will be under the control of the managers and officials of the teams.

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Field Day Dinner, to which all participants on Field Day, including officials, managers and competitors, are invited, will be held at the Union at 6.30 p.m., Saturday, November 9th.

(Signed) J. H. Rockwell. Chairman.

The Tech's weekly organ for the Tech, containing the latest news and developments in the field of science, technology, and education. The Tech is a valuable resource for students, researchers, and professionals interested in the latest advancements in technology and science, and serves as a platform for sharing knowledge and ideas among the community.
ON THE TECH NIGHT INTERVIEW.

(Continued from Page 1, Col. 3.)

The subject of Miss Sunshine was "Her Daintiness," who writes on all subjects. Her evening that was over, but he was kept answering questions for half an hour more. The balance is sensitive to the five milligrams part of a miligram. In the investigation of the gas they found that its spectrum was that of a new element. It obeyed the gas laws of Boyle and Gay Lussac, and hence was a gas. He showed it was a new element, and named it helium because of its power of giving off light. This light is shown with particular brilliancy when the gas is illuminated by liquid air. It then glows with a violet light. The density determinations gave this element an atomic weight of 223. The fact that helium was found in minerals containing uranium and thorium, and the fact that these minerals sometimes contained radium, led Sir William Ramsay to decide that the helium came from the radium. This was found to be true on investigation, and recent measurements have shown that each atom of radium, whose atomic weight is 226, in decaying gives one atom of helium, with atomic weight 4, and one atom of nitrogen, with atomic weight 22. It was found moreover that radium when allowed to stand for three months gave the spectrum of helium alone. This showed that nitrogen had blown down into helium and other elements.

The nitrogen and the helium that accompanied it were electrically charged, and they and the electrons which formed the two rays were capable of ionizing gases. This allows photographs of the path of electrons to be taken in a very ingenious manner. Water-saturated air is allowed to expand suddenly, but as there are no dust particles present no precipitation takes place. But if a trace of radium is placed in the air space the water-particles condense on the ionized gas molecules, and the paths of the helium and nitrogen atoms flying off from the radium can be photographed.

After stating that he might come back to Boston to describe electrons and their properties, Sir William Ramsay thanked his audience for the reception that they had given him. After prolonged applause the lecture was over, but he was kept answering questions for half an hour more.

SIR WILLIAM RAMSAY.

(Continued from Page 1, Col. 2.)

... Sir William Ramsay went on to explain what is meant by the "life" of an element. This is the period in which half of a given quantity is changed into something else. As the decomposition in the case of all these substances is gradual, complete decomposition would take an infinite time. The half life period of radium is up to the thousands of years, but that of the radium emanation, which is a gas, is found to be very slightly under four days.

The investigation of this gas, which had the power to discharge an electroscope, was begun by Rutherford and Boltz. They found that many other products are formed by the stepwise decomposition of these unstable elements, and they gave them such names as radium A, radium B, etc. But the complete investigation of the properties of this gas, the radium, radon, was only accomplished when the most refined methods for the handling of minute quantities of gas were used. Sir William Ramsay gained the necessary experience in his investigations of xenon, of which he had at no time more than 4 cc. But the new gas was only obtainable in quantities less than one-tenth of a cubic millimeter. To handle this small quantity required methods so exact that at first the problem seemed insurmountable. But the difficulties were overcome, and Sir William Ramsay showed pictures of the apparatus. Some of the pieces were so ingenious as to excite the admiration of the whole audience. In particular he showed how they constructed a balance which will give the weight of a definite volume of the emanation. This balance is sensitive to the five milligrams part of a miligram.

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THE TECH, BOSTON, MASS., NOVEMBER 6, 1912

EDITORIAL CONTEST.

It is announced that the subject for the next editorial is "The Future of the Pi Delta Epsilon Intellectual Contest." It is an optional one. Following are the rules governing the contest:

1. Each editorial must have the name, class, and address of its writer on each page.

2. Each editorial must be addressed to the Pi Delta Epsilon Contest Committee and left at the Cage or in the upper TECH office by 5 o'clock of the day on which it is due.

3. Each contestant must have written at least seventy-five per cent of the subject to qualify, and more credit will be allowed the contestant who writes on all subjects.

4. Contestants shall use their own judgement as to style and way of handling each subject, but shall refer to the editorial columns of THE TECH for the proper length.

5. Two subjects will be given our weekly during the first period of the contest, the first of which will be due on Thursday, and the second on Monday. The subject for the editorial due on Tuesday will be published Saturday, and the second on Wednesday.

6. The information upon which editorials are based may be obtained from any source.

7. The manuscript of the editorials must be neat and present a good appearance.

SPECIAL ISSUUoon
The total assets of the Old Colony Trust Company—over $97,000,000—represent over one-third of the combined assets of all Boston trust companies, and one-fourth of the total assets of all trust companies in Mass.

OLD COLONY TRUST CO.
Main Office Branch Office
COURT STREET TEMPLE PLACE

Guessed 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.

McMORROW
College Shoes for College Men
238 Washington Street, Boston, Mass.
OPPOSITE YOUNG'S HOTEL

C. F. HOVEY & CO.

Men's Furnishings

Our Special

$1.50 Negligee Shirts $1.00

These Shirts in a large assortment of patterns and colors—white grounds with blue, black, lavender and tan stripes, also color grounds of blue, gray, tan and lavender. At

Underwear

Merino Underwear—in white and natural, in medium and
Fall weight, per garment.......................... $1.00 upwards

Balbriggan Shirts and Drawers—in Fall weight, per

garment.............................. $1.00 upwards

Balbriggan Union Suits—in Fall weight, per garment

Half Hose

English Cashmere Half Hose—in medium and light

weight, per pair.............................. $1.00 upwards

Silk Half Hose—with lisle soles in black and a good line

of colors, per pair.................................. $0.50 upwards

Accordion Ribbed Half Hose—in all the popular color

combinations, per pair.......................... $1.00 upwards

Please do not Spit on the Floor of this Car

“Distinctively Individual”

A Choice Bit in the Tattler

Everyone enjoys the college paper—and a Fatima

60 Fatima cigarettes will cover a whole book of fifty
day's supply; delivered with handsomely

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THE WORLD'S CHAMPION

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Wed. and Sat. Matinees at 2:15

BROADWAY TO PARIS

Castle Sq. Daily 2 and 3

Mr. John Craig Announces

The Man of the Hour

The World's Champion

G. B. Castle

Little Boy Blue

The Joyous Operetta

Wednesday and Saturday matinees at 2.15

Prices 15c, 25c, 50c, 75c, $1.00

Attention is called to the following extract from the Rules of the Faculty:

"All marks of D incurred in the second term must be removed not later than the end of the following November. In case a mark of D is not removed at this time, the student shall be required to discontinue any independent subjects which he is taking, and all obtain a clear record only by repeating the subject in which the D was given."

A. L. Merrill,

Secretary of the Faculty.

Hotel Brunswick

Boston

European and American Plans

Herbert H. Barnes, Proprietor

HOTEL BRUNSWICK

Boston

European and American Plans

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Classified Advertisements and Notices

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Student Volunteers—Give names to L. B. Palot, 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 21, Walker Building, during the first five weeks.

H. M. Goodwin.

Faculty Notice.

Section P will change from Tuesday at 10 o'clock to Wednesday, at 9, to recite in Room 20, Engineering B.

Faculty Notice.

The Gym Classes begin Monday, November 11, as noted on Freshman View card. All men must be in the Gym at the first exercise, No Cutts allowed during year.

P. M. Kanaly, Gym Instructor.

To let—In a strictly private family, a front room with good board, 5 miles out from city, 20 minutes ride from Sullivan Square, 5 cent fare near both steam and electric. 145 Oliver street, Lincoln, Mass.

Do you know that there is a field of study that addresses the social in the Union?

Watch for the two issues of THE TECH on Field Day.

The Special issue on Friday will be worth saving.

The after-effects of the parade was noticeable on the Progressives on Monday morning.

These reports for the Freshmen are about due.

HOTEL BRUNSWICK

Boston

European and American Plans

Herbert H. Barnes, Proprietor

Receipts for Students who paid class dues with their ballots may be obtained at the Cage.

Room for Rent—Large room, two men, large desk, steam heat, continuous hot water, two closets, three windows, $25.00 per week, 30 St. Hothopol St. (Tues- Thurs-Sat.

Private Home—One large room, two connecting rooms, beautifully furnished, 500 yards from main library. Students either graduate or core graduate students. Convenient to electrical buildings. 19 Howard Ave., Brookline.

Lost—At Tech Field, an opened gold watch with H. R. B. on back. Reward if returned in 71 Easter street.

Lost—A 3-inch Slide Rule, in the Union, Monday, Oct. 28, 1:30 to 2 P. M. Return to Morrill, '94, for liberal reward.

Found—Slide rule and case, pipe case, binding, text-books, umbrellas, bunch of keys, 2 nickel pins, 3 note books, 3 watch fobs, fountain pen, watch, 2 pairs of Rosary beads, fraternity pins. Apply at Bursar's office.

Dancing Parties every Wednesday and Saturday evenings. Linden Gymnasium, 44 St. Holstol street, Boston. Refined patronage. (Tues-Sat.)

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A sporting goods representative will be at the Gym from 1:30 to 4 o'clock on Wednesday.

P. M. Kanaly, Gym Instructor.

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A. L. Merrill, Secretary of the Faculty.

The Technology Southern Club will hold a dance at the Hotel Carlton, Boylston and Hemenway streets, on Saturday evening, November 9th, at 8 o'clock.

Why Not Join the 2nd Company

Coast Artillery Corps

Mass. Volunteer Militia?

The South Armory is now fully equipped with up-to-date fire protection and range finding equipment and guns will be installed the coming Winter. The work is technical and should be interesting to college men. Four days tour of duty at the harbor forts. Regular drill at the Armory Monday nights. Come and see us.

Albert L. Kendall (M. I. T. '02) Capt. Coast Artillery Corps N. Y. M. Commanding Second Company

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Tech Barber Shop

Increased Business. Increased Help. Everything Installed.

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2312 Copley Square

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M. I. T. Meal Ticket 92.00

J. W. Meal Ticket 85.90

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