FINIAL RELAY TRIALS FOR HARVARD MEET

Selection For Fourth Place Not Yet Decided—Race Is Predicted.

Final trials for the relay team which will meet Harvard at the Coast Artillery games have been held, and the squad has been cut to six men. O’Hara, Reid, Colley, O’Hara, Brock and Dean have been retained and the team to run Saturday night will be selected from these men. Gutchting, Colley and Reid are sure of running, but the fourth place is still in doubt.

Brock, Dean and O’Hara were all very close in times in the trials, and Coach Kanasly is not yet willing to announce his final choices. Although Brock was fifth for a second trial for the distance in his trial, it is thought that O’Hara will be the final choice for the place. Owing to a death in his family the old B. A. star was unable to do any running during the fall and has been slow getting into condition. He has consented (Continued on Page Five).

MR. CARB OFF TO WAR

Institute Instructor To Join Ambulance Corps.

Mr. David Carb of the Institute English Department has been given a half year’s leave of absence, and is planning to go to Europe to the European battlefields. Mr. Carb will act there in connection with the American Ambulance Corps. He is looking forward eagerly to the novel experiences of the theatre of war, and will have an unusual opportunity to obtain dramatic material.

Mr. Carb came to the Institute after his graduation from Harvard, where he was given his A.B. degree. At the Institute he has won great popularity among the student body, as well as considerable reputation as a dramatic critic. He has written several plays.

SENIORS

Apointments for Senior Portfolio pictures must be made immediately. It is desirable for the committee to consult each individual in the short space of time that remains, so every man who has not had a sitting and who considers himself in the Class of 1916, is requested to get an appointment from C. W. Wood, W. B. Spencer or C. M. Rumels in the Union, Wednesday or Thursday between 1.30 and 2.30.

There is absolutely no charge for sitting and the taking of the picture does not require over ten minutes. Four hundred pictures have to be taken and everybody cannot be hast.

TECH SHOW TO START WITH FREE SMOKER

New Coach, Mr. Samuel Hume, To Be Principle Speaker.

Work in the stage department of the Tech Show is to be started in a new way this year. On the first Wednesday evening of next term a smoker will be held which will be free to every undergraduate who expects to come out for the show.

OFFICERS CLUB WILL CONDUCT BIG DANCE

Cadet Corps’ Annual Celebration Comes In First Week Of Term.

The annual Millitary Hop held by the Officers’ Club will take place this year on Friday evening, February 12. The event will be from 8 until 12 in Horticultural Hall. Plans have been made to make the dance an all Technological affair. Tickets may be obtained at the Cage or from any of the cadet officers at the rate of 50 cents each.

The dance program is as follows:

1. One step
2. Fox Trot
3. One Step, 2nd Connecticut March
4. Waltz
5. One Step
6. One Step
7. Waltz
8. Fox Trot
9. One Step
10. Waltz
11. One Step
12. It’s a Long Way to Tipperary

(Continued on Page Two)

BASKETBALL SCHEDULE

Many Advantageous Games Secured—Some Long Trips.

The schedule of the basketball team has been completed and is as follows:

January 20—St. Lawrence University, Canton, N. Y.
February 1—I-Collins College of Technology, Potsdam, N. Y.
February 4—Trinity, Hartford, Conn.
February 6—Wesleyan University, Middletown, Conn.
February 15—Penn. State, Lamont Penn.
February 19—Lehigh University, Bethlehem, Penn.
February 26—Connecticut Aaggies, New York City.
March 13—Connecticut Aaggies, Storrs, Conn.

Although this schedule is a very hard one, the coach expects the team to come through the series creditably.

TECHNIQUE ELECTIONS

It’s a Long Way to Tipperary

An important meeting of the Executive Committee of the Senior Class will be held in the Union today at 1:30 p.m. The agreement between Technique and the Class, concerning the publication of the Senior Portfolio, will be taken up at this time.

GYM TEAM MEETING

There will be an important meeting of the Gyn team at 6 p.m. today to elect a permanent captain and manager.

RELEAY TEAM

Candidates for Assistant Manager of the basketball team will report at the Gym this afternoon at four o’clock.

EXTENSIVE SCHEDULE FOR MUSICAL CLUBS

Receptions And Dances Are To Be Given In Many Of The Cities Visited.

The last extensive trip taken by the Musical Clubs was in 1912, since which time a similar trip has not been undertaken. The management has attempted to present trip largely because of the fact that sufficient interest and incentive are lacking in the schedule of the Clubs when only local concerts are given. The proposed trip has been under consideration since last spring and during the intervening months it has been considered from every viewpoint and nothing has been overlooked which might detract from its success.

The schedule is as follows:

(Continued on Page Five)

FINANCE COMMITTEE

Finances Of Activities Are In Good Condition.

At a meeting of the Finance Committee last week the reports of the treasurers from the various activities at the Institute were read and all the finances with but few exceptions were in excellent condition. The class treasurers reported that many members of the respective classes had not paid dues up to date. A motion was next passed that the Finance Committee recommend to the Institute Committee that it investigate the condition and activity of the Chem.

(Continued on Page Six)

TECHNIQUE ELECTIONS

B. N. Stimson, ’16, was elected first assistant business manager of Technique and C. M. Makepeace, ’16, second assistant business manager at a meeting last Friday. Stimson was a member of the 1916 Tug of War Team, a member of the Glee Club for two years, and Associate Institute Editor of The Tech, and was in the Show in 1914. Makepeace was a member of the 1916 Tug of War Team, second assistant business manager of Tech Show 1914, and a member of the Class Electoral Committee last year.

CALENDAR

Wednesday, January 20, 1915, 1.00—1915 Relay Team. 27 Rogers. 11.00—1913 Football Team. Not marke.
1.30—Executive Committee. Union. 2.00—1917 Crew Picture. No matter.
4.00—Candidates for Assistant Manager of Basketball Team. Gym. 5.00—Gym. 6.00—Gym. Thursday, January 21, 1915, 1.00—Meeting for E. B. Trip. E. B. Library.
THAR'S mo' than one way to kill a cat but they all look about alike to the cat, I reckon.

There's more than one way to spoil the flavor of a tobacco in "processing" it, and only one way to improve it—the slow aging method of curing Kentucky's Burley de Luxe that makes it into VELVET, The Smoothest Smoking Tobacco. Be sure and be metal-tipped bugs.

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THE TECH

Published as second-class matter, Sept. 16, 1912, at the office of Boston Tech, under the act of Congress March 3, 1879.

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IN CHARGE OF THIS ISSUE:
Editor: J. M. Debell, '17
Assistant: F. A. Lane, '17; A. R. Brooks, '17; J. W. Damon, '17;

Frequent complaints are heard among Tech men of the way in which they are overworked. Most of these are not worth serious consideration, but one case occurring at the present time seems to indicate a lack of consideration on the part of those in authority for the demands on a student's time made by his other courses.

This semester of Courses VI and X have, in addition to their regular work, a report on the recently completed boiler plant to write up. This requires, on an average, including the necessary study of references, five or six hours. The Course VI men have, in addition, two problems to hand in, which will occupy the average student eight to ten hours, but for which the men are excused from two hours of classroom work. All this comes at a time when a large part of each man's time should be devoted to preparation for exams.

No doubt if the Tech men were allowed for one hundred percent efficiency this would be all right. The courses in question have not been requiring the full quota of time and, if advantage had been taken of this fact to get ahead of the game in other courses, heavy demands could be met. Also if each man did his work as he should throughout the term, no one would need to study for exams. Since, however, this ideal condition is so far removed from actuality, we think more consideration should be shown for the student's human shortcomings.

REGISTRATION
Registration for the second term will begin the middle or latter part of next week.

The Tech is a weekly during the college year by students of the Massachusetts Institute of Technology.

COLLEGE NEWS

Unikichi Hattori, professor of the College of Literature in the Toito Imperial University, has been designated as the next Japanese lecturer at Harvard University. Professor Hattori has held many high educational posts and at one time was engaged by the Chinese government as professor of the normal course at Peking University. He is a famous scholar in Chinese classics.

Washington University announces the establishment of a course in public utilities, which will deal especially with the subject of their valuation for the purpose in rate-making and will be open to the students in engineering and economics. The work is in charge of Mr. J. R. Allison, formerly a member of the St. Louis Public Service Commission, who, both in this capacity and as a consulting engineer, has had much experience in valuing public utility plants. A fund has been donated to the University, the proceeds of which are to be awarded for the competition among the students who will pursue original investigation in the subject of public utilities under the direction of the department of economics.

An exhibition of craft work by the students has been sent to California to be installed in the Educational Building of the Panama-Pacific Exposition. A summary of the first comprehensive report of the work of the General Education Board shows that through funds given by John D. Rockefeller and through the Board's efforts in inducing others to give, a total of $17,563,710 has been distributed to the cause of education in the United States, since the organization of the Board twelve years ago.

SHOW SMOKER
(Continued from Page One)

Jeff H. White, will explain the details of the competition. These and others connected with the production of the Show will be prepared to answer questions about the work and the trips.

On the Friday following the smoker the first call for candidates will be made. Because of the smoker, the men will be expected to know just when the department they wish to try for, and no time will be lost in starting the actual trials.

The first rehearsal of the Shows Orchestra will be held very soon after. The exact date will be announced in the Tech and on posters during the first week of the term.

OFFICERS CLUB
(Continued from Page One)

12. Waltz. Blue Birds
12. Fox Trot. Meadow Brook
14. Waltz. Cecile
15. One Step. You're Here and I'm Here
16. Fox Trot. Old Homestead
17. One Step.
18. Waltz. Colo. de Luxe
19. One Step. Under the Jup. Moon
20. Waltz. Blue Dandie

Preparatory orders will be given at the Cape the latter part of this week.

During the month of January we will make our $3.50 and $4.00 Colored Neglige or Bosom Shirts for $2.75 in lots of Half Dozen or More. Fit and Quality of Workmanship Guaranteed.
CONSTRUCTION OF THE CUSTOM HOUSE TOWER

Architects Addressed By Designer And Engineer At Union Last Friday.

The Architectural and Architectural Engineering Societies held a combined smoker in the Union last Friday evening, following the usual custom of having such a meeting on the first Friday of every month. Mr. W. C. Appleton took up the architectural side. He told how the idea of building on the old customs house originated in Washington and showed one of the first sketches submitted to the committee in charge. The building weighs twenty-three thousand tons and, since such a large weight rests upon a small area, it was necessary to go down one hundred feet before firm enough ground was reached. The weight consists of four cement columns. The stone of the old building was retained to add to the beauty and Mr. Appleton told about the clock and cupola. The face of the clock is cement and the minutes are cast bronze. Only the tips of the hands are illuminated.

Mr. M. A. Reidy then took up the engineering problems encountered in the construction. He told more in detail about the caissons, pillars, wind stresses and supports over the dome. That the building is now only three-quarters of an arch out of plumb. The smoke stack runs up inside the building into the cupola, which is so high that it requires one hundred feet before the smoke escapes. The progress made was gone over at the end of the day to see if the building was going up along its intended lines and to see if everything was absolutely right. The smoke stack run up inside the building into the cupola, which is so high that it affords a very strong draft. There are only three buildings in the country higher than the Customs House, the Woolworth Building and the Metropolitan Tower in New York, and the Smith Building in Seattle. Mr. Reidy considered the building a fine example of modern steel construction and design.

After the talks, blue prints were examined by the students and refreshments were served in the side room.

PHYSICS, CHEMISTRY, AND POLYCON EXAMS

Questions Given At Previous Midyear Published Below.

1. Define or explain the following terms:
   (a) Free goods.
   (b) Capital.
   (c) Sterling exchange.
   (d) Favorable balance of trade.
   (e) Real wages.

2. Distinguish between productive and unproductive labor, and give an example of each kind.

3. Explain what is meant by the statement that "the maintenance of capital, as well as its creation, involves labor." Give three important advantages of the corporate form of organization.

4. Arrange the following items in their proper order as they would appear in the statement of a national bank. What criticism would a bank examiner make? Would these criticisms vary if the bank was situated in New York, Boston, or the town of Lexington?
   a. Loans
   b. Capital
   c. Cash
   d. Deposits
   e. Undivided profits
   f. Notes from Reserve Agents
   g. U. S. bonds
   h. Surplus

5. Give three good arguments for a protective tariff, and state how they are answered by the free-trader.

6. Explain the relation between the law of diminishing returns and rent.

7. Assuming that it was possible to assess taxes on land and capital with equal ease and certainty, what reason can be advanced in favor of "the single tax"?

1. How closely can a temperature of 1000 degrees be measured?
   When can a gas thermometer be used for taking a standard gas thermometer than cannot.
   2. What is the "cold junction" of a pyrometer, and how does it affect the measurements of temperature?
   To what is the "cold junction" of a thermometer due? Give reasons.
   3. The "cold junction" of a thermometer is due to the action of the calorimeter on the thermometer. Give reasons.
   4. Explain fully the method of measuring (1) the melting point of carbon, and (2) the boiling point of liquid air.
   5. Describe a method of measuring and comparing the co-efficient of expansion of a solid.
   6. Explain why solid snow is formed when liquid carbon dioxide is in a tank under a pressure of 1000 lbs. per sq. in. and a temperature of 30 degrees C. is allowed to escape freely into the air.
   7. Give three good arguments for a protective tariff, and state how they are answered by the free-trader.

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10. Describe a method of measuring and comparing the co-efficient of expansion of a solid.

11. Explain why solid snow is formed when liquid carbon dioxide is in a tank under a pressure of 1000 lbs. per sq. in. and a temperature of 30 degrees C. is allowed to escape freely into the air.

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OLD EXAMS (Continued from Page Three)

hanging in the ordinary way by a cord attached to the screw eye, and passing through a smooth block. The screw eyes are thirty-six inches apart, and the cord is six feet long. What is the location of the cord?

Find the center of gravity of a bolt one-half inch in diameter and six inches long under the head; the bolt is a 3/8 inch.

3. An airplane moving at the speed of 75 miles per hour in still air at the height of three thousand feet drops a bomb upon a target. Neglecting air friction, find the horizontal distance between the airplane and the target at the moment when the bomb is released. How would air friction modify your answer? Derive the equation of the path of the bomb.

4. The emergency planes in the vicinity. Great lakes will stop a 10,000-ton vessel moving four miles in an hour in a distance of seventy feet. If the average force exerted, if the force were constant, would the speed diminish uniformly, and why?

5. A mountain forty feet high supports a 5,000,000,000 ft. of water every 24 hours. What horsepower does this represent? If the energy delivered to the railway by an electric plant is 70 per cent efficiency, how many cars requiring fifty kilowatts each could be operated.

6. A gun weighing 850 lbs. discharges a bullet weighing 9.029 lbs. at a velocity of 3000 feet per second. How much kinetic energy is imparted to the gun? How much energy had the bullet, and what portion of the total kinetic energy if the bullet strikes a free body weighing 139.6 lbs. What becomes of the rest?

7. A kilogram mass attached to a string 1 meter long revolves in a vertical plane with the string as the axis. The tension in the string when horizontal is 3 times the weight of the mass. Find the tension when the mass is at the top of its orbit.

8. Write the equations for uniformly accelerated motion and energy or conservation that you remember, and the corresponding ones for rotation motion. If a 20-ton flywheel whose radius or gyration is 5.5 feet slows down from 500 to 400 R. P. M. in three seconds, what horsepower does it develop during this interval? If a one hundred pound bell was applied to a rope wound on the circumference of the wheel (diameter: 18 ft.), what speed would the wheel acquire in 10 seconds, starting from rest?

9. The mass of the moon is 1.908 that of the mass of the earth and the radius 5:91 of that of the earth, how much would a United States standard pound weigh on the moon? If this moon is attracted toward the earth, why is there no collision?

10. Over the atmosphere pressure is one ten per square foot, calculate the height of an oil barometer 30.000 ft. of height.

11. Why are barometric heights reduced to 0 degrees C.?

12. A slide-wheel pneumatically moves north, gradually headed toward the east. Point out any gyrostatic action accompanying the motion. Explain the principle of the gyro compass.

13. How many vibrations per minute with a pendulum one meter long make a pendulum 0.30 meter long make? What is a mercurial pendulum and what are its advantages, if any?

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OLD EXAMS (Continued from Page Four)

silver acetate is about 8 grams in a liter of water, while sodium acetate is about 200 grams in the same weight of water. Predict and explain what would happen if a considerable quantity were dissolved in 1 liter of a saturated solution of silver acetate.

1. What, if anything, would be observed, and write reactions in each of the following cases: (1) when HCl is heated to 400 degrees in a sealed tube; (2) when HCl (gaseous) is heated to 460 degrees in a sealed tube; (3) when perchloric anhydride is added to water; (4) when a mixture of hydrogen chloride gas and air is passed through a tube, heated to 460 degrees and containing clay balls saturated with copper sulphate.

2. How many magnesium nitrides can be prepared? How does it react with water, and to what type of chemical change does the resulting reaction belong?

3. Inorganic Chemistry B.

1. Apply the principle of constant proportions and the principle of multiple proportions to the oxides of sulfur.

2. Name experiments which you have performed which illustrate each of these important types of chemical change. Write reactions so far as possible.

3. A tube containing pure carbon is heated, and oxygen is passed through the tube. The resulting carbon dioxide is absorbed by cautious potash. From the following data, calculate a value for the equivalent weight of carbon.

Tube weighs 26 grams.
Tube and carbon before heating weigh 33 grams.
Tube and residual carbon after heating weigh 21 grams.
Potash tube before experiment weighs 35 grams.
Potash tube after experiment weighs 43 grams.

4. In what important respect does a concentrated solution of a weak acid differ from a dilute solution of the same acid? Name two ways in which the truth of your answer could be demonstrated.

Describe and explain what occurs when a strip of iron is immersed in a solution of a salt of copper. Can you explain the action of chlorine gas upon sodium hydroxide?

5. What would you predict as to the action of hydrogen peroxide upon carbon tetrachloride? Write the reaction.

6. If wood alcohol costs 14 cents per kilogram and denatured alcohol costs 10 cents per kilogram, which is the cheaper material to mix with water to form 20 liters of a solution which will not freeze above -9.3 degrees C.? Molecular weight of wood alcohol is 58, and of denatured alcohol is 62.5 (approximately). Molecular weight of water is 18.

RELAY TRIALS (Continued from Page One)
along strong the past week and should be running right up to form by Saturday. He is without any doubt the fastest starter on any relay team in New England, and with fair luck should get the jump on the first man either the Harvard or Dartmouth teams.

Guthrie slumped slightly in the first trials over the full distance, but came back strong last Saturday, and will prove fully as good an anchor-man as his brother. His time was the fastest of any of the men taking the trial, and his speed, together with his strong build, will make him one of the strongest relay men in the college ranks.

Colheary and Bold are both big men and just about as fast as the man who ran on last year’s team. Colheary is one of the best all round athletes in New England and is a former N. R. I. C. A. broad jump champion. His is a strong finisher and will probably be run third next year, as a member of the 350 team last year. He has been selected for the 400 meter.

Harvard will send against Yale practically the same team which set up the world’s record of 3 minutes 2 seconds running against the B. A. A. at the schoolboy games last year, to be the only member of the team lost by graduation. Proceed the present indications, Capper, Bingham, Bold and Minot will run for the Crimson.

In a trial last week Bingham went through the 390 in 47 seconds, one-fifth faster than the record for the track made by Capper last year. Judging the men by last year’s performance, Harvard will have the fastest college relay in the country, but will be pushed to their limit to boost the team which Technology will send to the meet.

In addition to the Harvard race, the Institute will meet Holy Cross at the Irish-American meet, Dartmouth at the H. A. A. and Georgetown at Hartford. Negotiations are on at present to provide an opponent for the track against the Providence Armory. The best indoor schedule in the country is the New England Armory, which is the best indoor schedule which has any management has ever arranged.

MUSICAL CLUBS
(Continued from Page Six)

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Sunday afternoon they go to Poten- dam, New York, where they play the Clarkeson College of Technology team. From there they will go either to one of the Canadian universities or di- rectly to Hartford, Conn., where they will play the Trinity team. On Sat-urdays they will play Wesleyan University team at Middletown, Conn., coming home Sunday morning. While in New York over Sunday they will have an opportunity to enjoy some winter sports, as both the places visited are upon the Canadian border.

TECHNOLOGY MONTHLY

Sale Of February Issue To Con- tinue Today.

For the benefit of those who did not get copies of the Technology Monthly during the holiday, the issue will be on sale today. They may be obtained at the Cage, at the Monthly office during office hours, or from men who will be through the Institute buildings today.

The next issue of the Monthly is partly ready and will go to press during the middle of next week. Articles of articles for the issue are re- quested to communicate with the Editors before the end of examination. Articles may then be arranged for, even though they may not be pre- pared by that time.

The next issue will appear about a week after the beginning of the sec- ond term.

---

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