

SENIORS COMPETE ON QUESTIONNAIRE

Blanket Ticket Is Prize For Best One Turned In Before Tuesday

Who is the Class snake? Who is the best politician in the class? Who is most popular? These are a few of the many questions which the members of the Senior Class are trying to answer in a manner that will enable them to win the prize of a Blanket ticket which will be given to the one making the best answers.

This blanket ticket is worth \$8, and covers admission to all the events of Senior Week. The questionnaires are being judged by the members of the executive committee of the Class Day Committee. Mercenary Seniors planning to win the ticket have already laid their plans to get in the good graces of this committee and particularly its chairman, F. G. Harmon '23.

The questionnaires were distributed last week, and the committee announces that they must be turned in by tomorrow night. No answers received after this time will be considered. The replies to the questions may be dropped into any Institute mail box, and will reach their proper destination from there.

JUNIORS COMMEND INSURANCE PLAN

Vote Money for the Purchase of a Moving Picture Camera

In addition to laying plans for the capture of the "T," the officers of the Class of 1924 at their meeting last Friday passed a motion commending the class of 1923 for inaugurating the insurance endowment, and voted \$50 toward the purchasing of a motion picture camera to be devoted to the interests of the different classes and activities at Technology.

The motion relating to the endowment fund of the Senior Class was worded as follows: "That the Class of 1924 express to the Class of 1923 its appreciation and hearty approbation of the work of instigating and carrying to a successful conclusion the past Endowment Fund drive. Furthermore, that the Class of 1924 will do its utmost to perpetuate this institution."

Camera Will Save Money

The class officers thought that the endowment fund was a very good idea and expect to start their campaign sometime next fall. No steps were taken at the present time because they felt that it would be best to wait until then in the hope of overcoming any flaws which may appear in the actual working of the plan.

A moving picture camera is being purchased to lessen the expense of having pictures taken at graduation and similar occasions. At present about \$400 is spent every year to take movies of Senior Week events. According to the new plan the camera will be purchased for \$250 and will be operated free by Mr. Eloy Benson of the Physics Department. As the only expense will be for films, it is expected that a great saving will be made by having the camera.

The \$50 was subscribed with the provision that the other \$200 be raised by the other classes and activities. It is expected that the Sophomore and freshmen will give \$50 each, while the Seniors, The Tech, Voo Doo and Tech-nique are expected to give \$25 each.

Senior Week Ushers

The following Juniors will serve as Senior Week ushers. The list is not yet complete, as three or four more men will be appointed by Wednesday.

F. A. Barrett
T. F. Bundy
A. D. Carothers
H. G. Donovan
H. B. Kane
W. H. Manning
C. M. Phelps
H. F. Simonds
George Swartz
Vaughan Wetherly

N. Y. C. Club Will Send Letters to 1927 Men

Letters will be sent out to all the entering freshmen from New York and vicinity by the New York City Club, which has been established during the past year. It was resolved to extend an invitation to the freshmen to a smoker which will be held near the end of October. In this way it will help to establish cordial relations between the newcomers and the present members of the club.

Further business of the club at its meeting last Saturday was the election of officers for the coming year. The following men were elected: president, S. S. Auchincloss, Jr. '26; secretary, W. F. McCormack '26; treasurer, R. H. Maser '26. Council members: A. H. Brown '26, L. J. Darmstadt '26, E. L. Peary '26, Martin Walter '26. Certificates of membership were given out to the members of the club and then the meeting adjourned.

Upper Classmen to Act as Freshmen Advisors

The T. C. A. has mailed about 125 return postcards to next year's upper-classmen asking them to act as advisors to the new freshmen. In August the T. C. A. will mail to each of the men who accepts the name of two or more freshmen with whom the advisor is to get in touch as soon as possible.

Rockwell Hereford '24 prepared the list of men to whom the cards were mailed. They were then sent to the Dean's office where Assistant Dean H. E. Lobdell '17, checked them over.

T. C. A. Inspects Rooms by Present Occupants

Of the 1200 cards mailed to students the T. C. A. Room Registry Department about 275 have been returned to date. These cards call for information regarding rooms that it is impossible for the T. C. A. to get by its regular method of inspection but which a man who has occupied the room can readily give.

A. W. Rhodes '24, head of the department, points out that when the inspection is made in the latter part of the summer the room is at its best and the landlady has on her "party manner." This cannot be taken as an indication of what the room will be during the year so the T. C. A. is inquiring of the men who are in a position to know. The names of the men from whom the information comes will be held confidential and only the information itself will go on file. The T. C. A. urges that men return these cards before leaving for the summer.

PEMBERTON SCENE OF SENIOR PICNIC

Athletics, Old Clothes, and Good Food to Feature Class Picnic

In an interview yesterday R. P. Shaw '23, class president, gave out some of the plans of the Seniors for the coming week. They related to the picnic Thursday and a drive which will be held to secure members in the Alumni Association from the Class of 1923.

The Picnic will be held at Pemberton. The class will leave the Institute at 9:15 Thursday and go down by boat, returning the same way. There will be many athletic events on the program, including baseball, swimming and track. Cups have been offered to the winners of some of the events. Course VI claims to have the champion relay swimming team and challenges the other courses.

A buffet luncheon will be served around noon, and Shaw says "it is all good enough to eat." He advises men to wear their old clothes and bring baseball equipment and bathing suits. He said that old white flannels or ducks and a sweater would be preferable.

In regard to the Alumni Association membership drive, Shaw said, "We are planning to get them from all sides next week. There will be a table in the main lobby Monday and Tuesday at which the men may join the Association. It is the only means of contact with the Institute after graduation. It only costs \$3 to join and brings with it one year's subscription to the Technology Review."

The next issue of The Tech will be published Friday, June 8. There will be a pictorial section next week.

Describes Methods of Laboratory Work on Transmission Lines

Professor Bush Tells How 1000 Miles of Power Line Can Be Put in One Room

Professor Vannevar Bush of the Electrical Engineering Department gave a talk to the Sophomore sections in Principles of Electrical Engineering last Friday on the work being done by the research department. For the greater part of his lecture he dwelt on the investigation and study of transient currents in transmission lines.

It seems that during switching operations on long, high-power transmission lines small currents are set up by the first rush of current into the line being reflected back. This reflected current then surges back and forth for a time. These transients in themselves are not dangerous, but when a number of them, each set up by the closing of a switch, get to surging back and forth and their effect becomes cumulative there is great danger of destruction of some piece of apparatus.

Vacuum Tube Relay

In the study of these transient currents the vacuum tube has, and is, proving itself invaluable. Formerly the oscillogram was used without any repeater and it was found that the instrument took such a heavy current that it practically wiped out those being studied. The use of the vacuum tube as a repeater has done away with this difficulty.

Since it is not feasible to study these transient phenomena on actual, commercial lines, resource is had to what is known as "an artificial transmission line." An artificial transmission line is a small, compact transmission line with built in inductances, capacities, and resistances equivalent to 1000 miles of actual line. The artificial line is operated just as the real line would be and the transient currents are studied by means of the oscillograph working through a thermionic valve.

Check Transient State Theory

As the recording device must be able to catch phenomena which occur within time periods of one three thousandths of a second it is readily apparent that the instruments of necessity have to be very sensitive and the control elements exceedingly accurate in their functioning.

The steady state theory of the operation of transmission lines has been thoroughly checked up by experimental work and successfully established. Now efforts are being directed toward the checking up and establishment of the transient state theory.

Steps in a Student's Educational Progress

In Professor D. C. Jackson's opinion there are five steps in a person's progress in education. He says, that, "if a student has not reached the stages of reflection and investigation by his Junior and Senior years respectively, he will never make a worthy son of Technology and probably will not graduate," and that upon going out into the world, "the graduate must continually perform all the operations of the fifth step for himself if he is to be successful."

These are the five steps in one's progress in education:—

1. Observation.
2. Observation and study.
3. Observation, study and reflection.
4. Observation, study, reflection, and investigation.
5. Observation, study, reflection, investigation and application.

Oxford and the Institute

By C. W. Pipkin

Appears on page 2 of this issue

Seniors Eat Together

Luncheons to develop class spirit and to give out necessary information will be held for members of the Senior Class in the north hall of Walker Memorial at noon today and tomorrow. At the meeting tomorrow reserved seat tickets for Class Day will be distributed. Each man is entitled to three tickets, which will be given away free.

Information necessary for those who expect to attend the various functions of Senior Week will be given out. It is also planned to discuss the picnic, and decide on the baseball teams for that event.

M.I.T.A.A. AWARDS HENDRIE 5 STARS

Track, Tennis, and Rifle Men are Awarded Their Letters

At a meeting of the M. I. T. A. A. held last week awards of numerals were made and the elections of managers of various sports were accepted, while recommendations for the awards of letters were made to the Advisory Council on athletics.

The A. A. recommended that a T with five stars be given Bob Hendrie. This is the first time in the history of the Institute that five stars have been awarded an athlete. Straight T's in track were also recommended for "Doc" Smith, Elmer Sanborn, E. W. Blodget, A. C. Stewart, G. A. Drew, Bob Hershey, R. W. Ambach, Charlie Snow, and L. F. Porter.

Award Freshmen Numerals

A discretionary T was awarded Joe Russell for reaching the semi-finals in the N. E. I. L. T. A., and for work of exceptional merit and improvement during the season. Captain L. L. Tremaine, Russell, M. L. Tressell, and Bill McWane were awarded T's for playing in two thirds of the matches of the season.

Members of the freshman track team were awarded 1926 numerals as follows: J. B. Bamford, J. T. Manion, G. H. Simonds, N. E. Howlett, M. W. Davidson, Major Sanford, J. W. Joyce, G. E. Rogers, W. M. Walworth, W. F. Rooney, J. G. Fletcher, C. A. Harrison, A. G. Knight, M. W. Fort, and A. B. Brand.

1923 numerals were awarded A. R. Holden, E. S. Pomykala, L. H. Poor, and H. V. Shipley. 1924 numerals were awarded R. O. Ballentine, G. W. Burrows, A. F. Fricker, P. C. Hedensted, G. R. Holt, A. C. Read, and C. H. Shih. 1925 numerals were awarded F. W. Bemis, J. M. Campbell, E. J. Holmes, and D. P. Jeppe.

Elect Three Managers

An aTa was awarded W. P. Allis, T. E. Garrard, E. H. McArdle, W. L. Kepling, R. W. Tryon, W. B. Gurney, P. M. Stearns, and W. N. Webster. Discretionary aTa's were awarded C. W. Chen, F. W. Waterman, and C. D. Dipple.

The following members of the rifle team received rT's. A. D. Carothers, D. M. Crveling, J. L. Fielding, A. Hastings, J. E. Jackson, E. M. Holmes, E. D. Murphy, and C. E. Peterson. 1926 numerals for the freshman rifle team were awarded G. R. Peterson, Whitney Ashbridge, G. M. MacNeil, and M. C. Dow.

G. B. Connard '25, was elected Manager of Publicity for the next year. C. E. Peterson was elected Manager of the Rifle Team for next year, and the competition for assistant manager was reopened. Manager J. W. Cannon '24, of the fencing team was awarded a rT. W. A. Whitehead '25, was elected manager of the Golf Team.

VI-A Soldiers to Get Paid in Spite of Law

Graduate VI-A men in the R. O. T. C. who did not receive their pay from the government on their last payroll will obtain this on their next payrolls, which are expected to come through before June 12. The original payment was withheld on grounds of legal technicality as one is supposed to draw pay for service in the R. O. T. C. for length of time in excess of two years. These men have been in the advanced units for more than two years, but as their pay has not completely covered this length of time, the comptroller of finance officer has interpreted the law in their favor.

GET THEIR BALLOON AT REVERE BEACH

Permission Obtained to Shoot Balloon Down so Seniors Train Rifle Squad

The big 60-foot balloon which the Seniors planned to get from Rochester to carry the "T" had been hired by some other people and so the Class of 1923 has obtained a substitute, one from Revere Beach, which they claim is just as good. They have pointed out that it is even better because permission has been obtained to shoot at this balloon, which was not allowed with the other one.

In accord with this new ruling, the Seniors are organizing a rifle squad which is being trained by Major E. W. Putney. This squad is supposed to shoot at the balloon at the crucial moment so that it will come down into the waiting grasp of other Seniors who will take the "T" back to the Institute. The Seniors have not yet promised that they will not use the rifles on members of the other classes who are also trying to capture the "T."

Juniors Make Secret Plans

If the promises of the Juniors mean anything, the Seniors will have a hard job getting the six foot "T." At a meeting of the class officers last Friday secret plans were laid which will enable them to bring back the "T," so they claim. They have also called a meeting for next Saturday, at which the class will be organized for the fight.

The balloon will be sent up next Saturday at 4:30 o'clock after the Class Day exercises at the Armory.

SENIORS WEAR GOWNS ON FOUR OCCASIONS

Rented Gowns Ready June 5— Mail Notice For Owners Of New Gowns

Caps and Gowns will be worn four different times during Senior Week. The first appearance will be on Class Day on Saturday. They will also be worn at the Baccalaureate Sermon on Sunday, at the Inauguration Exercises, Monday, and at the Graduation exercises, Tuesday.

Up till last Saturday 666 Seniors had left orders at the Technology Branch for either rentals or new gowns. Those who are renting their Caps and Gowns may obtain them at the Cooperative Society Store after June 5. Those having Gowns made will be notified by mail as soon as they are ready.

Walker Gym Change is Fostered by Alumni

At a meeting of the Alumni Council held last Monday evening in Walker Memorial a petition to the Corporation was presented by Dr. A. W. Rowe '01, to the effect that the present Gymnasium be changed temporarily to the Hangar and that the space made available by this change be used as activity offices and lounges. It was further recommended that the work be started this summer. This petition was unanimously accepted and will come up before the Corporation for consideration at its meeting on Wednesday.

This petition was presented by Dr. Rowe after a careful study of the report submitted by the undergraduate committee headed by F. G. Harmon '23, and after consultation with outsiders as to the cost of the proposed change.

CALENDAR

Monday, June 4
12:00—Senior Luncheon, north hall, Walker.
Tuesday, June 5
12:00—Senior Luncheon, north hall, Walker.
Wednesday, June 6
6:30—Class Banquet, Walker Memorial.
Thursday, June 7
9:15—Senior Picnic, leave by Trolley and Boat for Pemberton.
Friday, June 8
3:00—Tea Dance, Walker Memorial.
Saturday, June 9
2:00—Class Day, Armory.
Sunday, June 10
3:30—Baccalaureate Sermon, Trinity Church.
Monday, June 11
11:00—Inauguration, Symphony Hall.
8:00—Tops Concert, Symphony Hall.
Tuesday, June 12
11:30—Graduation, Great Court.
4:00-6:00—Receptions, Walker and Department Headquarters.
9:00—Senior Prom, Walker Memorial.