

### NEW COURSES TO BE LAUNCHED IN GRADUATE STUDY

Professor Haslam Tells Of The  
Fuel and Gas Engineering  
Graduate Courses

### ALUMNI REUNION PLANNED

Alumni Council Nominates Five  
Corporation Term Members  
By New Method

At the 109th meeting of the Alumni Council in Walker on Monday, 47 members and guests were present. An informal dinner preceded the business meeting. At the meeting several important decisions were reached. Five men were nominated as Term Members of the Corporation, announcement was made of the Annual Intercollegiate smoker, plans were tentatively adopted for the All-Technology Reunion to be held here next Spring, and a message of sympathy was voted to Dr. Stratton.

Following the business session, President T. B. Booth '95 introduced Professor R. T. Haslam '11 of the Chemical Engineering Department, who gave a talk on the present development of new post-graduate courses in Fuel and Gas Engineering. He told the Council that at the present time Technology has more than twice the number of post-graduate students that there are at any other college or technical school in the country, and that as a result of the big increase in the number of such students in the past three years, we now have nearly 30 percent of all the post-graduate students in the country. This advanced work in Gas and Fuel Engineering essentially a continuation of undergraduate work in fundamental subjects but specifically training men for industrial work will be started definitely next October. It will probably be made cooperative over a period of

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### SHOW CANDIDATES WILL OFFER SKITS

Management Decides to Revert  
To System Employed  
Before 1923

### FIRST TRY-OUTS ON JAN. 9

In selecting men for the cast and chorus of Tech Show 1925, the management has decided to revert to the system used previous to 1923. This method of preliminary elimination consisted essentially of having the candidates present short skits. The best men, as judged from their ability in acting their parts, were then permitted to enter the later try-outs of the show. In this way, it was possible to greatly reduce the number of men who were assigned definite roles at the start of the competition.

#### Everybody Eligible

This preliminary competition was originated by Masque, the Tech Show honorary society, and proved to be very successful. The original purpose of the call for skits was to reveal new talent. However, the management of Tech Show 1925 wishes it to be understood that under the system to be employed this year, all candidates are invited to present their ability, regardless of whether or not they have had previous experience with Tech Show.

**Skits to Be Presented Jan. 7**  
All candidates are urged to prepare their skits as soon as possible. Several men may get together and give one short act, or the men may present their talents individually. The skits may be of any nature which will display the candidate's ability, such as song and dance numbers, monologues, or dialogues. In any case, however, the maximum time limit will be 20 minutes.

Men desiring more complete information should call at the Tech Show office, room 301 Walker, on any day after 5 o'clock. The date set for the presentation of these skits is January 7.

**Coach To Be Announced Shortly**  
The management states that there is still a possibility of having a ballet included in this year's show. A more definite announcement will be made at a later date.

Arrangements for the hiring of a coach for the direction of the entire show are now being completed, and it is expected that the management's choice will be known in a few days.

The following telegram was received from the President's secretary:

Washington, D. C.  
Nov. 25, 1924.

Dr. Stratton had quiet night. Condition so far satisfactory.  
M. A. Parris.

### PRESIDENT RESTING AFTER OPERATION

Dr. Stratton's Condition Very  
Much Better Following  
Treatment

President S. W. Stratton was operated on Monday afternoon at Washington for gall stones. A bulletin received at the Institute yesterday afternoon said that Dr. Stratton had had a quiet night and that his condition so far was satisfactory. The message was signed by M. A. Parris, the secretary of the president.

Dr. Stratton went to Washington last week to confer with his physician, Dr. W. G. Morgan. He was advised that an operation was necessary and that it would be inadvisable to return to the Institute before this could be performed. Consequently Dr. Stratton went to the Garfield Hospital where he has been undergoing treatment and was operated on Monday.

#### Dean in Charge of Office

The first bulletin received after the operation said that the president was doing as well as could be expected and today's telegram confirms this report. Secretary Parris has been with Dr. Stratton since last week and has kept the officials here informed of any changes in the case. If conditions continue as favorably as they have so far in the case, it is believed by those in touch with President Stratton that he will be able to return to his desk in five or six weeks.

Dean H. P. Talbot '85 is in charge of the office of the President for the immediate present. It has been customary for the Dean to take charge of the office when Dr. Stratton has found it necessary to be away from Technology and this plan has been followed in the present instance.

### GOOD WRITER OFFERED UNUSUAL EMPLOYMENT

Work of an odd nature can be obtained by anyone with writing ability through the Employment of the T. C. A. One of the Employment Bureau's employers has compiled the data and written the synopsis of a book on certain economic uses of the principles of the slide rule.

Mr. Paul E. Harrison of Lynn has called upon the Employment Bureau of the T. C. A. to find a man with writing ability to take material on the economic uses of the principles of the slide rule and write it up in suitable form for publication. Mr. Harrison is willing to give this work to the proper man on a 50-50 basis, considering the compiling and summarizing as only half the work. Anyone who is interested can obtain the details by seeing G. G. Speer Jr., director of the Employment Bureau.

### REGISTRAR'S OFFICE RELEASES FIRST TERM SCHEDULE OF EXAMS

Examinations for the first term begin on Tuesday, December 16 and last till the following Tuesday evening according to a proof of the examination schedule issued to THE TECH yesterday by J. C. MacKinnon, Registrar. The last exercises of the term are the day before the examinations start, and most of the examinations are over by Monday evening. Tuesday being reserved for special examinations. It should be remembered that the schedule printed below is tentative and subject to change.

#### TUESDAY, DECEMBER 16, 9 A.M.

- 1.44 Stationary Structures .....4
- 6.44 Elec. Tr. & Dis. of En. ....4
- 6.541 Power Sta. & Dist. Sys. ....G
- 8.601 Airplane Design .....G
- E11, 12, & 13 History (Coll. Trans.)

#### TUESDAY, DECEMBER 16, 1.30 P.M.

- 1.751 Hyd. & San. Eng. ....4
- 2.567 Airplane Engine Des. ....G
- (2 hours)
- 6.24 Electric Railways .....4
- 6.551 Electric Railways .....G
- 8.16 Photography .....3

#### WEDNESDAY, DECEMBER 17, 9 A.M.

- 1.591 Th. of Rein. Concrete .....4
- (2 hours)

### PROM COMMITTEE WILL BE ELECTED ON DECEMBER 10

Nominations Must Be Turned In  
At Information Office  
December 5-6

### HEAD WILL BE CHAIRMAN

Two weeks from today, on Wednesday, December 10, members of the Junior class will elect five men from their class to sit on the Junior Prom Committee. The chairman of the committee will be the president of the class, R. W. Head. All men who are officially members of the class of 1926 may vote in this election.

Nominations are to be turned in at the Information Office, room 10-100, between 9 o'clock Friday, December 5, and 1 o'clock Saturday, December 6. The nomination blanks must be of the following form, as prescribed in the T. C. A. Handbook: "We, the undersigned members of the class of 1926, do hereby nominate \_\_\_\_\_ for member of the Junior Prom Committee of our class." The signatures of five sponsors of the nominee, and the signed acceptance of the nominee himself must follow. It should be noted that in this election the signatures of only five sponsors are required, whereas in the ordinary class elections ten signatures are necessary.

#### Preferential Ballot

As in the freshmen elections held two weeks ago, the new preferential system of voting will be used rather than the former Australian Ballot System. Although the new system worked quite well in the freshmen elections, according to C. R. Muhlenberg, 25, Chairman of the Elections Committee, it is expected that the preferential system will show its real value when applied to the coming election, since the voters will be much better qualified to grade their preferences for the various candidates because the latter will be comparatively quite well known to them. In the case of the freshmen elections, when the men had only been at the Institute for a little over a month, it was impossible that each voter could know very much of the candidates.

In the preferential system the voter places beside the names of the candidates, Arabic numerals showing what order his preferences for the individuals are.

The committee to be elected will have entire charge of the handling of the Junior Prom. All of the five committeemen will be of the same rank.

### COLDS NOW TREATED BY CHLORINE GAS PROCESS

A graduate of Rochester University has given the School of Medicine a novel piece of apparatus for the treatment of colds. The machine makes use of chlorine gas to cure nose and throat ailments. This is a relatively new method of treating these diseases, and results are being watched with interest. The apparatus was presented to the University with the provision that it be installed where it would be of the greatest service to mankind in the fighting of disease.

### Harvard-Yale Game Is Nothing To This Plane

Paul D. Sheeline '19 tells of the experience that he and a friend had last Saturday in attempting to reach New Haven in an aeroplane in order to see the Harvard-Yale game. It was a particularly windy day in the morning and the visibility was rather low. Taking off from Boston they planned to stop at Hartford for gas, and after flying for some time they thought they must be near Springfield and upon descending towards the ground they found they were directly above Foxboro almost due south from Boston.

Again heading west they once again descended after a little and found that instead of going west they had come up due south in Pawtucket, R. I. Shortly after leaving Pawtucket their gasoline supply became low so they turned on the emergency, and after twenty minutes, being sure that they were at last near Hartford they descended on a field that they spied and found that they were at Fresh Pond, Cambridge, Mass. As this was but four blocks from Mr. Sheeline's home, he decided to go home and get the game by radio, and let his mate take the plane back to the hangar in Boston.

### FALL CONCERT TO BE GIVEN DEC. 5

Tickets To Be On Sale in Main  
Lobby From 12 Until 2  
All Next Week

As posters throughout the Institute have already intimated, the Combined Musical Clubs will give their annual Fall Concert on the evening of Friday, December 5, from 8:15 until 9:45 o'clock with dancing following the concert program until 2 o'clock. The affair will be held in the main hall of Walker as has been the custom in past seasons. The Winter and Spring concerts usually take place in one of Boston's popular hotels.

Although the clubs' management are as yet unable to publish the entire program of the concert, it has been decided that the three specialty acts which will be included in the performance are the banjo duet by Raymond Mancha '26 and D. A. Shepard '26, the violin solo by K. M. Peterson '28, and the cornet solo by D. S. Ullrick '26. The remainder of the numbers will probably include most of those already rendered by the clubs at their concerts so far this season.

The tickets for the concert will be sold at \$3.00 per couple. Although the official sale does not commence until Monday, tickets can be obtained from any member of the managing board of the clubs until that date. Starting on Monday and continuing throughout the week until Friday there will be a public sale of tickets in the main lobby from 12 until 2 o'clock each day.

The Fall Concert is the first of the four major engagements of the clubs this year. Furthermore, it is usually

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### Why Do We Have The Term "Coed" In The Colleges?

One of the riddles of college life consists in a question, "Are the terms co-ed and woman undergraduate synonymous?" Decidedly not. Co-ed is the achievement of a widespread college dislike for long words which explains the adoption of a purely campus vocabulary: "Profs" and "I'm going to the L.M.," "What did the 'Ec' prof say" and "co-eds"—all these have become daily phrases owing to their conciseness, but co-ed, although it possesses the necessary brevity yet it serves another purpose also for it conjures up an entirely different picture than does the word "woman undergraduate." For many years after woman's supreme struggle had won for her the right to penetrate into the sacred precincts of the universities "woman undergraduate" was applicable to all the women students. The woman undergraduate of those days came to college to gain a practical knowledge that would ultimately fit her for the career she had carefully selected. College life centered around lectures and Gradu-

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### PITTSBURG CROSS COUNTRY TEAM IS WINNER OF TITLE

Technology Takes Tenth Place  
With 254 Points In The  
I.C.A.A.A.

### BEMIS UNABLE TO FINISH

Captain of the Beaver Harriers  
Suffers Cramp Attack  
During Race

One of the supreme upsets of the season came Monday when the strong Syracuse team failed to come up to old Doc Dope's predictions and win the I. C. A. A. A.; while the Pittsburg squad by the time honored system of bunching their men took away the highest harrier honor by a 57 point score. Harvard finishing a good second pulled another surprise, shutting out the strong Syracuse squad into third place. Technology finished tenth, the team scoring with 254 points; while Captain Bemis, running at second position, was forced out of the run at the half way by stomach cramps.

Rooney was the first Cardinal and Gray runner to score when he flashed across the line in thirty-seventh position, next came Parkinson in forty-fifth place, Hooper in fifty. Ostborg and Davidson closed the scoring for the Engineers when they finished in fifty-sixth and sixth-sixth positions respectively. With Bemis out of the race the chances of the team to figure strongly in the score column was totally lost as he had been counted on to come across among the first five, it was a case of hard luck as Bemis had been going strong all season and had seemingly reached the pink of condition for the race.

**Harriers Used to Hard Luck**  
According to Doc Connor, "such breaks come to a strong cross country runner once in a while. Elmer Sanborn experienced the same bad luck that put Bemis out of the race Monday in the New England two years ago when a bad attack of cramps put him out of the running for a front position, although he stuck out the run, he finished in the last position. Kanaly had counted on Sanborn to come through flying, and in the I. C. A. A. A. he confirmed this belief when he finished up among the leaders in the big clash of the cross country season."

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### SENIORS CONTINUE TO RUSH CAMERA MAN

So many Seniors reported to the photographer last week between Friday and Saturday, to catch a glimpse of the new assistant, that the studio was compelled to remain closed Monday while the photographer was convalescing yesterday at home brought on by the nervous strain of attempting to take so many pictures in such a short time.

At nine o'clock this morning the studio was filled with Seniors waiting for the new assistant to open up, but the photographer was the first one in, disappointing the early risers. From that moment on the studio did not have a quiet moment, Seniors were rushing in to arrange appointments, the photographer was clicking the camera, and before the day was gone about 75 Seniors had seen the "birdie." Aside from the Seniors about 15 members of the English and History faculty laid aside their work long enough to have their picture taken. Forty-three members of the Physical department also made use of the new studio and had their pictures taken instead of later in the year when they would have had to travel to Boston.

This is the last week of the Senior pictures for the studio must move before Saturday noon and as only about 300 of the Senior class have been to the studio as yet there will be an early "Christmas rush" started before them.

The studio is open now from 9 to 2 instead of the two divisions that the day has formerly been broken up into.

### CALENDAR

- Wednesday, Nov. 26
- 1:00—Sophomore football team picture, room 3-416.
- 4:00—Meeting of Tech Show lyric and music writers.
- Friday, November 28
- 4:00—Hygiene lecture by Dr. Lawrence on "General Health." Room 10-250.
- 2:00-5:00—Varsity Rifle Practice.
- 1:00—Informal meeting of Corp. XV.

A Record of Continuous News Service for 43 Years



Official News Organ of the Undergraduates of Technology

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MANAGING BOARD: D. A. Henderson '25, General Manager; J. P. Ramsey, Jr. '25, Editor; A. M. Worthington, Jr. '25, Business Manager

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In Charge of This Issue:

G. C. Houston '27

IMITATION OR STIMULATION?

IT is interesting and sometimes humorous to listen incognito to the comments passed upon material appearing in this editorial column. At rare times it is beneficial to the unfortunates who cudgled their word-weary brains to evolve that which is interesting, remindful, stimulating, or tickling to the cerebral ribs of those who care to peruse.

It is appropriate to set forth the editorial viewpoint. First of all, it is an aggregate of individual opinions, of individual writings and individual estimates, rather than a summarized bulk of opinion supposed to be governed by an artificial, set policy of criterion.

It is obvious that it is an impossibility to mold into a homogeneous mass such a diversified group of beliefs, prejudices, ideas, ponderations, evaluations, and faiths as are found in a student community such as this. When the accusation is made that student opinion is not expressed, the answer is that the editorial function is not one of pandering to the public tastes, but is a presentation of cogent, propitious questions as the individual editorial writers conceive them.

An example of this editorial practice is the Baltimore Sun. The editorial writers on this paper are absolutely free to present their ideas as they see fit without in any way being limited by the opinions of the owners. A foremost journalistic authority, Dr. Villard, editor of The Nation, recently expressed the opinion that this was the best editorial system in use in the country.

The method of the Sun can only be approximated by the system here in which individuals give expressions to their viewpoints in a partially desultory manner. Always under the pressure of scholastic work some editorials are carefully thought out, others are hastily written out. Much depends upon the writers cordial relations with the faculty in determining whether the document will be humanitarian. Also whether there is anything to say when writing an edit, and whether at that moment the telegraphic connections between the cortex and the basil ganglia are good.

OUR LIBERAL NEIGHBORS

IN the recent action of the Harvard Student Council there is an indication that something is wrong with the interest in government shown by the student body. The Council has announced that the first half of each monthly meeting will be opened to the undergraduates of the University. The members of the council are trying this experiment because they felt that their purpose was not being carried out due to the lack of contact between the students and the council.

There is nothing unique in the situation at Harvard for there are other places where students seem to have but little interest in the actions of a few men who have been selected to make reports on conditions, and offer advice on student activities. Harvard men may take a greater interest in student affairs because of the opportunity of watching their representatives work, they may even become interested to the extent of offering opinions that will aid the council in reaching its aims, but the big significance of the departure from custom at Harvard is that students are not thinking enough about their relation one to another.

Here at Technology where there is no campus and where little time is allotted to the study of politics there is a greater need for support of student government. A strong current of undergraduate opinion can and will influence the action of the Institute Committee. This can be maintained only by individual thought and discussion.



A rare example of courtesy came to light the other day. It was a sight for sore eyes. The Lounger actually saw a man step forward and open a door for a co-ed. It was so unusual that the Lounger had to rub his eyes to make sure that he was seeing properly. A second look showed him that the man who had so gallantly flung open the portal was one of our esteemed force of janitors. A possible explanation has been offered. It has been suggested (though the idea is abhorrent) that this proves that our co-eds are deemed more attractive by the janitors than by the students.

example will be followed by students as well as janitors.

A startling report has come from New York! The president of the Allied Dental Council claims that "eighty percent of girls do not give men a sanitary kiss." He admits that kisses have a stimulating effect upon the heart action, but adds that they may bring us things far worse than lovesickness. This seems to bear out the statements of one of our famous toothpaste companies: "only one out of five escapes." The dentist does not say what percentage of men should be allowed to kiss girls, but we hope it is higher than one out of five.

It is with the greatest regret that the Lounger lays aside his studies tomorrow. It has always been his custom to spend his holidays at his desk, but in order to conform with the editorial policy of the paper, he is going to sacrifice this marvelous opportunity to catch up in his work upon the altar of Thanksgiving and turkey dinners.

REVIEWS

"CAPTAIN APPLEJACK" REVIVED AT COPLEY

"Captain Applejack," here not long ago, proved so popular that it is now being given again; this time at the Copley Theatre. The plot is very interesting, but not so complicated as to be difficult to follow. It centers about a mild little man, the personification of respectability, who feels the need of a change. He wants to escape the monotony of his every day life, and to go off seeking adventure and romance. Adventure gets the jump on him and comes to him in the ancestral home of the Applejohns, descended, according to an old parchment found in a secret panel from the famous pirate Capt. Applejack. Ambrose Applejohn is caught quite unawares, and can scarcely keep up with the rapidly moving chain of events. He is suddenly overwhelmed by a night of wild excitement—alluring women who faint in his arms at the psychological moment, hidden treasures of fabulous value, spies of the Russian Government, rollicking pirates, master cracksmen. Mr. Clive, as Ambrose, is most amusing as he tries to fight off his inherited respectability and startles his family with fierce piratical expressions, more forceful than elegant. Mr. Mowbray, as Ivan Borolsky, arch villain, and Russian secret agent who stops at no crime that will accomplish his ends, is as amusing as he is terrifying. Miss Dudgeon plays her part (the aunt who gets on every one's nerves) well enough to get on the nerves of the audience as well. Miss Standing, as a Russian dancer and a clever adventuress, is annoyingly attractive—too seductive to be seen by young college men who should be studying! She is strikingly well costumed. Miss Ediss—a respectable English girl, but a cabin boy on a pirate ship in off moments—proves to Ambrose, now sick of adventure, that romance can be found at home and has been waiting for him while he, with the typical blindness of all mankind sought it afar.

W. A.

"OLD HOMESTEAD" PLEASURES AT ST. JAMES

To anyone who had seen "The Old Homestead" as done by Denman Thompson at the Boston Theatre many years ago it would seem unfair to conflict such pleasant and mellow memories with the production of this old classic as it would probably be done by the modern stock company. Anybody going to see the revival playing at the St. James, however, will receive a most pleasant surprise for not only is the original form of the play followed identically but the spirit of Denman Thompson himself is preserved to a wonderful extent.

There is no question that all the parts except those played by Anna Layng and Leon Hall were more or less overacted but these were so perfectly done that the slightest discrepancy on the part of the others was glaringly noticeable. Miss Layng while she had only a minor part showed such genuine feeling for the dramatic that she stood out entirely above the other minor characters.

Mr. Hall, of course, can not be said to be as good as Thompson for Thompson played the same part year after year during the best part of a decade. In spite of this, however, it is impossible to find any fault whatsoever with Mr. Hall's interpretation of the part. He is perfect and the only way that the original performer could have excelled him would be in the little subtleties that impress one only subconsciously.

The play itself is intensely interesting and very true to life. One could not hope to find a better personification of the true New England spirit. There are several dramatic moments in the first and third acts which would require very little to turn them into the weakest kind of melodrama. These are some of the places where Mr. Hall distinguishes himself, for instead of sickening the audience with cheap sob stuff he raises a lump in anyone's throat and those who have old homesteads resolve to return for a visit at the first opportunity.

D.D.

Play Directory

- BOSTON OPERA HOUSE: "Cyrano de Bergerac." Walter Hampden. Last week.
COLONIAL: "Stepping Stones." Thoroughly good musical comedy.
COPLEY: "Captain Applejack." Reviewed in this issue.
HOLLIS: "The Nervous Wreck." As ridiculous as the title intimates.
MAJESTIC: "Janice Meredith." Moving picture.
ST. JAMES: "The Old Homestead." Reviewed in this issue.
SELWYN: "For All of Us." Last week.
SHUBERT: "Artists and Models." Properly de-kicked for Boston audiences.
TREMONT: "Saint Joan." Last week.
WILBUR: "Moonlight." Julia Sanderson.

Rating the Health of the Inhabitants of Municipalities in the United States

By PROFESSOR M. P. HORWOOD

Department of Biology and Public Health

In 1913, mainly through the initiative and activities of a Technology alumnus, Mr. Frank Schneider Jr., '09, the municipal public health survey was developed as a means of determining the status of community health activities. In addition, the findings of such surveys were used as a basis for directing the health work in cities along scientific, economical and effective lines. Since that time, the public health survey has been widely used, and its potentiality for improving and protecting the health of our cities is only just beginning to be realized.

During the present year, two extensive series of investigations into the health activities of American municipalities have been undertaken. One of these was conducted under the auspices of the United States Public Health Service, and included 83 cities throughout the country, which in 1920 had a population greater than 70,000. The other was conducted by the American Child Health Association of which Mr. Herbert Hoover is President, and included 86 cities in the United States, which in 1920, had a population between 40,000 and 70,000. Both investigations were conducted with the cooperation of the American Public Health Association.

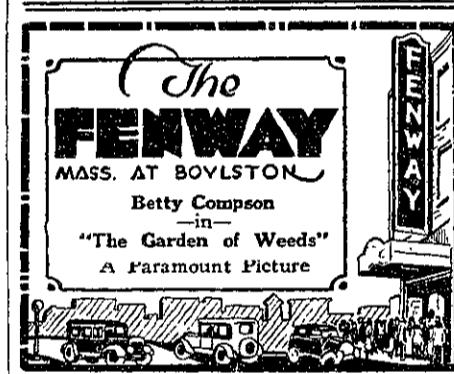
Study Child Health

It was my privilege and pleasure to have a share in the survey of the 86 cities. The country was divided into five sectors, each of which had 15 to 18 cities, and a trained, experienced investigator was placed in charge of the surveys in each division. In addition, two men remained at the Central Office in New York to supervise the organization of the work as well as the analysis of the completed surveys. Of the seven men associated in this great task, five had received their public health training at the Institute. In addition to the writer, the group included Dr. G. T. Palmer '09, Mr. Philip S. Platt '15, Mr. Edward Stuart '15 and Dr. Harold H. Mitchell '16. The investigation sought and obtained basic information on public water supplies, sewerage systems and methods of sewage disposal; refuse collection and disposal; milk and food supplies; hospital and clinic facilities for the promotion of maternity, infant and child welfare, as well as for the prevention of tuberculosis, diphtheria, smallpox and the venereal diseases. Other factors included, were the organization and activities of official and voluntary health agencies; school sanitation; school hygiene; recreational facilities; provision for health education; industries; vital statistics, and other items of importance and value, necessary in arriving at a just estimate of the health activities of any community.

One of the outstanding special features of these surveys was the attempt to learn something about the health habits of children, 10 to 12 years old. To this end, a brief but carefully prepared questionnaire was submitted to 35,000 fifth grade children throughout the country, which inquired into such important health habits as diet, sleep, play, the use of coffee and milk, the use of the toothbrush, the amount of

absence due to sickness, and the frequency of dental visits. The analysis of the 35,000 questionnaires has already been made, and the results for each city are being referred to the local school superintendents for immediate use. The results were not only interesting and enlightening, but in some cases, were quite startling.

Based on the findings of the surveys conducted by the U. S. Public Health Service and the American Child Health Association, a score card has been evolved, which is being sponsored by the American Public Health Association, and which has already been adopted by health officers from three sections of the country, which will enable a competent investigator to rate the health activities of any community in the United States. The score card will be used not only to determine the deficiencies in the health program of a particular community, but likewise to stimulate improvement. It will also serve as an important means of arousing the interest of influential local groups, such as chambers of commerce, business men's clubs and other organizations, in the health of their communities, and this should prove to be an effective means of providing satisfactory and modern municipal health supervision. Through the popular and influential interest aroused in community health work, this municipal function should be freed of practically all the undesirable political influence which sometimes attends it. Through the use of trained, unbiased, and capable surveyors, operating under the auspices of the American Public Health Association, communities will soon know the grade in which their health work has been classified. This new method of studying municipalities, therefore bids fair to become an important instrument for promoting the health and well-being of people throughout the United States.



St. JAMES

Huntington Avenue Back Bay 202

Mats. 2:15 Holiday Mat. 3:00 Thurs. Eve. 8:15

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336 to 340 Washington Street, Boston

## FROSH HARRIERS PLACED THIRD IN I.C.A.A.A. MEET

Syracuse Takes First Place And Yale Manages To Beat Technology

### FRESHMAN CAPTAIN LEADS

With a fight that promises Technology a fine varsity next year the freshman Cross Country team finished in third place in the freshman Intercollegiate. Only two teams in the East were able to present a better balanced team than Technology. Syracuse with seven men finishing among the first 25 won the meet with a total of only 38 points. Yale with a finely balanced team beat out the wearers of the Cardinal by the slim margin of eight points. The first Tech runner to cross the finish line was Eddie Chute, captain of the freshman team, who finished in ninth place.

During the entire course of the race the Cardinal and Gray runners were closely bunched. It was not until the close of the race that Chute began to stretch his lead enough to finish with the leaders. Running a beautiful race, he nosed out Faigle and Rice of Syracuse and just failed to finish ahead of Weir of Yale. Kirwin, Bennett and Maegher, not to be outdone by their captain put forth their best efforts and managed to finish among the first 25. Kirwin finished fifteenth, a couple of seconds behind Cohn, one of Syracuse's many runners. Barnett in twentieth place, and Maegher in the twenty-fifth places. There was only a second's time intervening between each of the last eight of the 25 men to place.

#### Many Colleges Represented

The meet brought forth teams from the best colleges in the East, including Syracuse, Yale, Maine, Pennsylvania, Princeton, N. Y. U., Rutgers, Dartmouth and Cornell. The first man to cross the line was J. D. Bell, wearing Syracuse's colors. As he had won a previous A. A. U. victory his score was thrown out, and Berger of Yale who finished second was given first place. Princeton won the next two places, but due to the fact that not another Tiger crossed the line till 18, the Orange and Black only placed sixth. From there on every few places were interspersed with a couple of Syracuse runners.

The first 25 men to finish in the race were:

| Pos. | Name and College           | Time      |
|------|----------------------------|-----------|
| 1    | J. D. Bell, Syracuse       | 17:14.4-5 |
| 2    | G. B. Berger Jr., Yale     | 17:31     |
| 3    | D. D. O'Connell, Princeton | 17:32     |
| 4    | E. R. Welles, Princeton    | 17:36     |
| 5    | S. Goldberg, Syracuse      | 17:42     |
| 6    | K. J. Rupert, Syracuse     | 17:47     |
| 7    | R. Roy, Pittsburgh         | 17:52     |
| 8    | H. Weir, Yale              | 17:54     |
| 9    | E. E. Chute, M. I. T.      | 17:55     |
| 10   | E. H. Faigle, Syracuse     | 17:56     |
| 11   | R. K. Rice, Syracuse       | 17:57     |
| 12   | R. B. Baker, Maine         | 18:05     |
| 13   | J. E. Hale, Maine          | 18:06     |
| 14   | L. J. Cohn, Syracuse       | 18:07     |
| 15   | P. H. Kirwin, M. I. T.     | 18:10     |
| 16   | W. H. Glenn, Pennsylvania  | 18:13     |
| 17   | W. Long, Syracuse          | 18:14     |
| 18   | J. R. Gibson, Princeton    | 18:17     |
| 19   | W. Adams, Pittsburgh       | 18:18     |
| 20   | W. S. Bennett, M. I. T.    | 18:19     |
| 21   | R. Keith, Dartmouth        | 18:20     |
| 22   | G. Gomperts, N. Y. U.      | 18:21     |
| 23   | R. Verderosa, N. Y. U.     | 18:22     |
| 24   | I. P. Pickering, Maine     | 18:23     |
| 25   | C. B. Meagher, M. I. T.    | 18:24     |

#### Team Score

Syracuse, 38; Yale, 94; M. I. T., 102; Maine, 111; Pennsylvania, 123; Princeton, 125; N. Y. U., 189; Rutgers, 201; Dartmouth, 215; Cornell, 230; Columbia, 275; C. C. N. Y., 336.

\*Ineligible because of previous A. A. U. victory.

### I.C.A.A.A. RESULTS

| Pos. | Name and College                   | Time |
|------|------------------------------------|------|
| 1    | M. L. Smith, Yale, 31:24           |      |
| 2    | A. S. Hillman, Maine, 31:45        |      |
| 3    | C. M. Marsters, Georgetown, 31:48  |      |
| 4    | R. W. Schmid, Columbia, 31:49      |      |
| 5    | T. C. Lies, Pittsburgh, 31:50      |      |
| 6    | A. M. Briggs, Yale, 32:01          |      |
| 7    | B. R. Cutcheon, Harvard, 32:03     |      |
| 8    | W. L. Tibbetts, Harvard, 32:04     |      |
| 9    | T. Corbett, Pittsburgh, 32:07      |      |
| 10   | E. B. Kirby, Cornell, 32:15        |      |
| 11   | E. P. Case, Syracuse, 32:23        |      |
| 12   | J. Watkins, Pittsburgh, 32:24      |      |
| 13   | C. Loucks, Syracuse, 32:25         |      |
| 14   | D. C. Schroedel, Pittsburgh, 32:33 |      |
| 15   | R. T. Titus, Syracuse, 32:34       |      |
| 16   | W. L. Chapin, Harvard, 32:35       |      |
| 17   | W. Howell, Pittsburgh, 32:40       |      |
| 18   | L. Ryan, Harvard, 32:41            |      |
| 19   | A. W. Gottlieb, Syracuse, 32:42    |      |
| 20   | C. W. Collins, Dartmouth, 32:45    |      |

#### Scoring Engineers

|              |             |
|--------------|-------------|
| 37 Rooney    | 50 Hooper   |
| 45 Parkinson | 56 Davidson |
|              | 66 Ostborg  |

## VARSITY RIFLEMEN TO MEET COLUMBIA

More Men Are Needed to Make a Successful Team—20 Men Now Out

Varsity rifle season has started in earnest with the first match of the season coming off with Columbia December 13. There are now about 20 men out for the team, but more men than these are needed to make the season the success it was last year. Several of the Beaver marksmen have had the privilege of attending Camp Perry last summer; Captain Fielding, Allen, and Billings. Billings received an expert rifleman's medal while at Camp Perry in the C. M. T. C. The few left from last year's squad include: Holmes, Benson, Billings, Colt, and Ashbridge.

On December 13, the first meet of the season is scheduled for a four position match with Columbia. Although this is rather early for a four position match both teams have had about equal practice and should come through with an average high score.

### VARSITY-FROSH RIFLE TEAMS TO HAVE MATCH

Announcement has been made of a match between the Varsity and freshman rifle teams to be held during next week. The match will be considered as a practice meet for both teams. Shooting will be from the prone position at a distance of 50 feet. The teams have not as yet been definitely chosen, but will consist of ten men each with one alternate per man. Maximum possible score for each team is 1000, or 100 points for each member of the squad. The freshman rifle team is being coached throughout the season by Lieutenant E. E. Levy.

### NEW COURSES TO BE STARTED NEXT FALL

(Continued from Page 1)

one to one and one-half years leading to a master's degree. It is also hoped to attract some of the students back for a Doctor's degree and further than this it is hoped that through the establishment of fellowships advanced research work may be carried on.

In showing the demand for this type of specialized training in America at the present time, Professor Haslem sketched the development of this work in European schools where it has already been taken up to a considerable extent. He said that France is busy with plans to produce light motor fuels to aid in the protection of the country, while Germany on the other hand, is endeavoring to work up low grade coal to use in place of the high grade coal which she is being forced to give up at the present time. England is interested in low temperature carbonization of coal to reduce the smoke nuisance and also in developing heavy oils for fuel. At the present time America seems most interested in converting fuel into power or heat at a minimum of cost.

In accordance with the report of the committee appointed to consider improved methods of nominating Term Members of the Corporation the following men were nominated to that position: I. W. Litchfield '85, F. H. Fay '93, J. F. McElwain '97, Lawrence Allen '07, and Alexander Macomber '07. With Kenneth Moller '07 as chairman, the 1925 All-Technology Reunion Committee has definitely organized and presented the following tentative program for the reunion:

Morning—Registration in Main Lobby.  
Noon—Buffet Lunch at Walker Memorial.

Afternoon—Departmental Inspections and Tea provided at President Stratton's House.

Evening—Informal Jambouree Dinner in Boston.  
Friday, June 12, 1925:  
All-Day—Sea Trip to Nantasket Beach.

Evening—Tech Night at the Pops.  
The Council upon the motion of Dean H. P. Talbot, voted that "The Alumni Council of the Institute extends to President Stratton its deepest sympathy in his enforced retirement from activity and its hearty good wishes for an early and complete return to full vigor and health." It was then announced that the Annual Intercollegiate Smoker was to be held under the auspices of the University Club of Boston at the Copley Plaza Hotel on the evening of Wednesday, December 3. Tickets may be secured from R. K. Gross, 44 State Street, Boston.

Students who are not going home for Thanksgiving may be interested in knowing that there is to be a football game on Tech Field Thursday morning. The game is an annual affair between the First Corps Cadets and Battery A. The two teams are composed of some semi-pro and college players and always play a good game.

## PITTSBURG CROSS COUNTRY TEAM IS WINNER OF TITLE

Technology Takes Tenth Place With 254 Points In The I.C.A.A.A.

### BEMIS UNABLE TO FINISH

(Continued from Page 1)

Macaulay Smith of Yale ran away with the leaders for first position when he broke the tape in time 48 seconds better than the great Vern Booth did last year when he finished fully 150 yards in front of the others. It was a repetition of his last year's triumph when as a freshman he copped the yearling event with ease. His victory Monday came as a surprise as Ed Kirby of Cornell with Marsters of Georgetown, Hillman of Maine and Case of Syracuse were figured to be the only contestants for first honors. Smith running with a beautiful long stride loped along easily throughout



W. F. ROONEY '26

the long run and outclassed the other leaders, the veterans of one or more of the long grinds over the Van Cortlandt Park course. His victory was not totally unexpected however as he had achieved clear cut victories in both the Connecticut A. A. U. championship and in the big three annual run. As he finished strong and fresh after covering 6 1-4 miles of country the Yale Sophomore who has just passed his nineteenth year received a big ovation from the crowd gathered to see the end of the race.

#### Hillman Ahead For First Lap

Hillman led for the first lap of the run which is a little over a mile, but the Yale runner was not to be led by anyone and as he passed under the railroad bridge, Smith forged ahead, and as the group passed up Cemetery Hill the Yale harrier took the lead and from then on it was his own race. Hillman weakened towards the last and was barely able to stave off the challenge of George Marsters at the finish for second place.

Pittsburg's victory was a distinct triumph of the system of bunching the men at the finish, five men coming across the finish line in the first seventeen places to give them a remarkably low winning score of 57. As the Pittsburg runners came by at the half way post they were not regarded as the probable winners as the Orange harriers were bunched very closely in the front. It was not until the finish of the classic that the crowd surmised the true result, and then they realized that Frank Shea, National A. A. U. 440 yard champion of 1917, 1919, and 1920 and a member of the 1920 Olympic team, the coach of the Blue and Gold harriers had achieved a personal victory. Not only did the men from the Smokey City win but they won so decisively that there was nothing to be desired. They turned in a victory that prevented the much touted Syracuse group from making a third straight win.

#### Cross Country To Improve

Doc Connors said last night that "the showing although not up to expectations, because of the dropping out of Bemis, was highly gratifying and greatly justified getting Oscar Hedlund as distance run coach; from the showing of the men everything points to the fact that Technology will be better represented in the distance runs this year than last." The development this fall of the cross country, especially of the new men, opens a new era in the runs at Technology since the days of Sanborn and Bob Hendrie, and points well to a good track squall team."

## SWIMMING BATTLE BETWEEN CLASSES TO BE HELD SOON

Classes Will Struggle to Have Their Numerals Placed On Shield

### SENIOR SHOWING POOR

Only a short time remains before the annual interclass swimming meet takes place. The purpose of this meet is to give the coach a line on the men he can rely on and pick from to represent Technology during the winter season. Last year the Brookline Swimming Club, of which Coach Dean is the captain, offered a shield as a prize in the annual battle of water. The first class to have their numerals engraved upon this shield was the Class of 1924. The Freshmen were second and the present Senior Class was third.

This, the second year in competition, will give some other class the opportunity to have their numerals engraved on the shield. So far the showing of the various classes has not been up to the manager's or the coach's expectation. To come out for the interclass meet it is not necessary to come out for swimming, though any man that places in the meet is almost certain of making the team. All men in the Institute are eligible to enter the meet, freshmen, ineligible, and last year's varsity. The only requirement is to sign up on the bulletin that is in the main lobby, and to be present the day of the meet. The least any man can do for his class is to sign up and come out the day of the meeting and do his best.

With the meet only a few weeks away, three Seniors have shown the desire to uphold the honor of their class. Something radically wrong has taken hold of the Senior Class this year, for the same thing happened a short time ago when the call for crew candidates for the class teams was sent out. Do the Seniors expect three men to win enough points to have the numerals of the Class of 1925 engraved on the shield offered each year by the Brookline Swimming Club? Last year as Juniors, they came in third, and this is the last year that they will have the opportunity of winning.

### FORMER HARRIER WINNERS

| Year | Team          | Points | Individual Winner   |
|------|---------------|--------|---------------------|
| 1899 | Cornell       | 24     | Cregan, Princeton   |
| 1900 | Cornell       | 26     | Grant, Penn.        |
| 1901 | Yale          | 22     | Franchot, Yale      |
| 1902 | Cornell       | 24     | Bowen, Penn.        |
| 1903 | Cornell       | 12     | Schutt, Cornell     |
| 1904 | Cornell       | 12     | Newman, Cornell     |
| 1905 | Cornell       | 29     | Hals, Yale          |
| 1906 | Cornell       | 22     | Jones, Penn.        |
| 1907 | Cornell       | 39     | Haslkins, Penn.     |
| 1908 | Cornell       | 29     | Younf, Cornell      |
| 1909 | Cornell       | 22     | Berna, Cornell      |
| 1910 | Cornell       | 37     | Jones, Cornell      |
| 1911 | Cornell       | 48     | Jones, Cornell      |
| 1912 | Harvard       | 32     | Jones, Cornell      |
| 1913 | Cornell       | 68     | Boyd, Harvard       |
| 1914 | Cornell       | 35     | Potter Jr., Cornell |
| 1915 | Maine         | 51     | Overton, Yale       |
| 1916 | Cornell       | 38     | Overton, Yale       |
| 1917 | Penn          | 38     | Dresser, Cornell    |
| 1918 | No race held. |        |                     |
| 1919 | Syracuse      | 49     | Romin, Pa. State    |
| 1920 | Cornell       | 56     | Brown, Cornell      |
| 1921 | Cornell       | 18     | Higgins, Columbia   |
| 1922 | Syracuse      | 75     | Booth, J. Hopkins   |
| 1923 | Syracuse      | 58     | Simmons, Syracuse   |

Recapitulation—Team victories: Cornell, 17; Syracuse, 3; Pennsylvania, 1; Maine, 1; Yale, 1; Harvard, 1. Individual victories: Cornell, 10; Pennsylvania, 4; Yale, 4; Harvard, 1; Syracuse, 1; Columbia, 1; Johns Hopkins, 1; Penn State, 1; Princeton, 1.

### VARSITY TEAM SCORE

|              |    |    |    |    |    |     |
|--------------|----|----|----|----|----|-----|
| Pittsburg    | 5  | 9  | 12 | 14 | 17 | 57  |
| Harvard      | 7  | 8  | 16 | 18 | 26 | 75  |
| Syracuse     | 11 | 31 | 15 | 19 | 24 | 82  |
| Yale         | 1  | 6  | 23 | 40 | 47 | 117 |
| Maine        | 2  | 22 | 25 | 35 | 52 | 136 |
| Columbia     | 4  | 21 | 33 | 38 | 61 | 157 |
| Cornell      | 10 | 32 | 41 | 43 | 44 | 170 |
| Dartmouth    | 20 | 30 | 36 | 42 | 55 | 183 |
| Princeton    | 29 | 31 | 48 | 58 | 63 | 229 |
| M. I. T.     | 37 | 45 | 50 | 56 | 66 | 254 |
| Rutgers      | 27 | 53 | 57 | 64 | 65 | 266 |
| Georgetown   | 3  | 54 | 67 | 71 | 73 | 268 |
| Pennsylvania | 39 | 79 | 80 | 81 | 85 | 364 |
| C. C. N. Y.  | 78 | 82 | 83 | 88 | 92 | 433 |

Coach Haines is now giving a great deal of his time to the 150 pound outfits at the boat house. These crews are properly termed the light varsity boats and must average 150 pounds with no man over 155 pounds in weight. The first light varsity is well under way but the second has barely been scraped together and still lacks one man. Coach Haines had hopes of being able to put three 150 pound boats on the river this Spring.



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## TWO TERM SYSTEM ACTION SUSPENDED

### Opposition of Students Cause Faculty to Delay Decision

Action on the adoption of the two term system has reached a temporary standstill since the Faculty meeting last Wednesday. Before the meeting, it looked very much as if the Faculty favored the new plan, but the unqualified stand which the student body took against it has caused some indecision.

A canvass of the student body by Institute Committee members, supplemented by a special ballot for transfer students run by THE TECH, showed only one man in favor of the change. The Faculty, for the most part, would say nothing concerning the merits of the case, but did let it be understood that they were favoring the change.

At the Faculty meeting, the committee investigating the matter submitted a report which gave simply a plan for changing with the minimum of trouble to the term system, and one for rearranging the present three-term system.

After much discussion, it was decided to make no definite decision at that time. Following the meeting, a few of the instructors sought the opinions of their classes on the question, and others are expected to make an inquiry into the student viewpoint on the matter before the Faculty meets again.

If a decision is arrived at when the Faculty next meets, it will probably be possible to make the change by next October. If the decision is long delayed, however, it may become impossible to inaugurate the change before 1926.

The Faculty is keeping quiet about the probabilities of the change being made. H. E. Lobdell '17, Assistant Dean, declares "I have nothing to say on the matter at present."

## "Engineering Record" Claims Students Should Keep Text Books

Reprint of an Editorial Published in The Engineering Record

It is surprising to find how common is the practice among students in engineering schools of selling their textbooks as soon as they pass the courses wherein the books are used. During the last year in the classes in mechanics of materials and hydraulics at a well-known technical school of high standing where there were 89 and 114 students respectively, the two book stores at which textbooks are sold to these students report that 76 copies of the mechanics of materials and 97 copies of the hydraulics were disposed of by them during the year. This shows that 13 students in one and 17 in the other or 14.6 and 15 per cent respectively, obtained their books from men who had previously taken the courses, or studied the book of a classmate, or possibly in extreme cases went without the book altogether.

If this condition obtains in such important fundamental subjects, constituting the very foundation of most constructive engineering, what must be the state of affairs in the less important ones? There are two reasons, both poor, why students sell their books. In the first place there are a good many men in stringent financial circumstances who dispose of one set in order to buy others. Even this is false economy and the practice should not be followed until all other resources have been drawn upon. The second and more common reason for disposing with books lies in the mistaken idea that as soon as an examination in a subject is passed there is no further need for the books pertaining to that subject. This practice is by no means confined to needy students but is engaged in by those young men who do not appreciate the relation of one course to those that follow it. Neither do they realize that their books are part of their stock

in trade, to be used as necessity demands. It is not only at graduation that books are sold. It is all through the college course, and when a copy of the book on mechanics of materials is disposed of at the end of the term there is little or no thought in the mind of him who sells it that he may have many occasions to use that book in his machine design or bridge design courses that follow.

Experience teaches that one's textbooks are the best reference books not only in college but in after years while engaged in engineering practice. By studying a book daily for a term one becomes familiar with it; he knows where to find things in it and he understands its limitations. In busy times, when it becomes necessary to make use of a reference book, the old textbook with its marginal notes and its familiar diagrams, formulas and, most important of all, with its familiar notation is a great source of help, a friend in need. Not uncommon is it that in making reference to some book in which methods and notations are new, one becomes entangled in the search for the meaning of this or that particular letter in the very formula that is needed, but because this meaning is not clear or significance of the letter is not stated he abandons the book without getting the desired information. The book may be just as good or better than others of its kind, yet its value is greatly lessened because of its unfamiliar pages. The next best thing to having information in mind is to have it in a book, to know where to find it when wanted and how to use it when found. It is just this that makes engineers' handbooks so desirable, and even these books are only half appreciated until one becomes familiar with them.

Students should keep their textbooks, whether they will be of further use or not. Since most students who go through engineering courses follow engineering it is a fair presumption that the books will be used later. In a well-managed course in engineering the books are not selected at haphazard but are carefully chosen. By preserving those used in classes and by adding a few other standard ones each year a fairly good nucleus will be formed by commencement day around which a technical library can easily be collected. And with a good supply of books at hand the young engineer will be more likely to continue his studies after graduation than if his only available supply rests in the city library, if, indeed, he is fortunate enough to be near one.

### WOMEN EXPLAIN USE OF THE TERM "CO-ED"

(Continued from Page 1)

ation Day. No outside activities distracted her mind from her work. She paid little or no attention to the men, also intent on their work. There are still today many women students whom one would naturally speak of as women undergraduates as of those ladies of former years, but with the invasion of late years of her more pleasure loving, more decidedly feminine sister into the fold of the women students the term "Women Undergraduate" appeared a trifle too heavy and all together unsuitable. Picture for yourself the sweet young girl, muffled up in snug fur coat whose saucy little hat nods and bows every few minutes to the steady flow of serious young men whom she meets as she madly dashes over to lectures, picture her staggering under the dignified title of woman undergraduate. She thinks lectures are either 'fun' or a 'bore' and college means to her the acquirement of a certain amount of miscellaneous knowledge and a ripping good time in all sorts of social activities. The word Woman Undergraduate as applied to her is absurd and rather laughable, so the alert, up-to-date young collegians coined the expressive word 'co-ed'. Which will last the longer?

### FALL CONCERT TO BE A WEEK FROM FRIDAY

(Continued from Page 1)

the main social event of the Fall term. Social activities are always rather slow in getting under way at the first of the year since more time is usually given to other lines of work such as Field Day, athletics, and other activities. The clubs, by the nature of their work, are somewhat later than most of the activities in getting under way since a large amount of time is consumed in selecting the men for various clubs, in rehearsing the numbers on the concert programs, and in filling out the schedule of engagements. Accordingly it is usually impossible for the clubs to give the Fall Concert at an earlier date.

### FIRST TERM SCHEDULE OF EXAMINATIONS OUT

Continued from Page 1)

|                                       |      |
|---------------------------------------|------|
| 2.271 Th. of Elast. ....              | A.O. |
| 2.451 Heat Engineering .....          | 4    |
| 2.52 Heat Engineering .....           | 4    |
| 3.41, 3.411, 3.412 Metallurgy .....   | 4    |
| 4.471 Eur. Civ. & Art .....           | 4    |
| 6.04 Prin. of Elec. Eng. ....         | 4    |
| 6.041 Prin. of Elec. Eng. ....        | 4    |
| 7.58 Vital Statistics .....           | 4    |
| 8.231 Theoret. Physics I .....        | 3    |
| 8.243 Theoret. Physics II .....       | 4-G  |
| 8.34 Thermodyn. & Statist. Mech. .... | G    |
| 10.21 Ind. Chemistry .....            | 3-4  |
| 10.35 Chemical Eng. ....              | 4    |
| 10.351 Chemical Eng. ....             | 4    |
| 13.021 Naval Arch. ....               | 4    |
| (2 hours)                             |      |
| E21 English & History .....           | 2    |

#### THURSDAY, DECEMBER 18, 9 A.M.

|                                     |       |
|-------------------------------------|-------|
| 1.491 Structures .....              | 4     |
| 1.651 Hydraulics .....              | 4     |
| 2.207 Applied Mechanics .....       | Sp.   |
| 2.25 Dynamics of Machines .....     | 4     |
| 2.704 Machine Design .....          | 4     |
| 3.43, 3.431, 3.432 Metallurgy ..... | 4     |
| 4.61 Landscape Arch. ....           | 4     |
| (2 hours)                           |       |
| 5.801 General Chemistry .....       | 4     |
| (2 hours)                           |       |
| 6.15 Prin. of Elec. Eng. ....       | 4     |
| 6.311 Prin. of Elec. Com. ....      | 4     |
| 7.03 Theoretical Biology .....      | 4     |
| (2 hours)                           |       |
| 8.451 Physics Seminar .....         | 3-4-G |
| 3.621 Airship Th. ....              | G     |
| 8.82 Electrochemistry II .....      | 4     |
| 10.31 Chemical Engineering .....    | 4     |
| 10.361 Chemical Engineering .....   | 4     |
| 13.331 Ship Construction .....      | 4     |
| (2 hours)                           |       |
| 13.53 Marine Engineering .....      | 4     |
| M21 Mathematics .....               | 2     |
| M23 Mathematics .....               | 2     |
| M35 Diff. Equa. of Elec. ....       | 3     |
| (for VI-A only)                     |       |

#### THURSDAY, DECEMBER 18, 1.30 P.M.

|                                           |   |
|-------------------------------------------|---|
| 6.521 Alt. Current Mach. ....             | G |
| 7.301 Bacteriology .....                  | 3 |
| 7.66 Epidemiology .....                   | G |
| (2 hours)                                 |   |
| 8.431 Prin. of Math. Theory of Elas. .... | G |
| 8.641 Aero. Res. ....                     | G |
| D171 Descr. Geometry .....                | 1 |
| (2 hours)                                 |   |
| Ec31 Political Economy .....              | 3 |
| (2 hours)                                 |   |
| Ec37 Banking .....                        | 3 |
| L111 German .....                         | 3 |

#### FRIDAY, DECEMBER 19, 9 A.M.

|                                     |          |
|-------------------------------------|----------|
| 2.40 Heat Engineering .....         | 3-G      |
| 2.461 Heat Engineering .....        | 3-4-A.O. |
| 2.471 Heat Engineering .....        | 3-4      |
| 4.461 Eur. Civ. & Art .....         | 3        |
| 5.01 Chemistry .....                | 1        |
| 6.01 Prin. of Elec. Eng. ....       | 3        |
| 6.12 Prin. of Elec. Eng. ....       | 3        |
| 7.271 Biochemistry .....            | 3        |
| 12.30, 12.304 Geology .....         | 3        |
| (2 hours)                           |          |
| L221 German .....                   | 2        |
| M36.1 Adv. Calc. & Diff. Equa. .... | 3        |

#### FRIDAY, DECEMBER 19, 1.30 P.M.

|                                 |   |
|---------------------------------|---|
| 2.204 Applied Mechanics .....   | 2 |
| 2.71 Machine Design .....       | 4 |
| 4.49 Hist. of Renais. Art ..... | 4 |
| (2 hours)                       |   |
| 5.052 Inorg. Chemistry I .....  | 4 |
| 5.67 Chemical Prin. II .....    | 4 |
| 6.511 Electric Circuits .....   | G |
| 7.50 Infection & Immunity ..... | 4 |
| 8.021 Physics .....             | 2 |
| 12.301 Geology .....            | 3 |
| (2 hours)                       |   |
| 13.60 Steam Turbines .....      | 4 |
| (2 hours)                       |   |
| Ec60 Business Law .....         | 4 |
| L611 French .....               | 4 |

#### SATURDAY, DECEMBER 20, 9 A.M.

|                           |   |
|---------------------------|---|
| 1.211 Ry. & Hy. Eng. .... | 3 |
| 1.214 Ry. & Hy. Eng. .... | 3 |
| (2 hours)                 |   |
| 1.68 Hydraulic Eng. ....  | 4 |
| 1.771 Sanitary Eng. ....  | 4 |

|                                       |     |
|---------------------------------------|-----|
| 2.281 Adv. Mech. & Th. of Elast. .... | G   |
| 2.304 Materials of Eng. ....          | Sp. |
| (2 hours)                             |     |
| 3.011 Mining Methods .....            | 3   |
| 3.071 Mining Economics .....          | 4   |
| 4.421 Arch. History .....             | 2-3 |
| (2 hours)                             |     |
| 6.531 Public Service Co. ....         | G   |
| 7.101 Anatomy & Hist. ....            | 3   |
| 7.361 Indust. Microbiology .....      | 4   |
| D191 Desc. Geom. ....                 | 1   |
| (College Class)                       |     |
| Ec22 Political Economy .....          | 2   |
| (2 hours)                             |     |
| L121 German .....                     | 2   |
| M13 Mathematics .....                 | 1   |
| Special Examinations                  |     |

#### SATURDAY, DECEMBER 20, 1.30 P.M.

|                                   |       |
|-----------------------------------|-------|
| 1.561 Structures .....            | G     |
| 1.62 Hydraulics .....             | 4     |
| 2.41 Heat Engineering .....       | 3-4-G |
| (2 hours)                         |       |
| 2.411 Heat Engineering .....      | 3     |
| (2 hours)                         |       |
| 2.50 Heat Engineering .....       | 3     |
| 4.511 Philos. of Arch. ....       | 4     |
| (2 hours)                         |       |
| 5.50 Organic Chemistry .....      | 2-3   |
| (2 hours)                         |       |
| 5.511 Organic Chemistry .....     | 3     |
| 10.211 Indust. Chemistry .....    | 3-4   |
| 10.25 Indust. Stoichiometry ..... | G     |
| D211 Descriptive Geometry .....   | 2     |
| E11 English & History .....       | 1     |

#### MONDAY, DECEMBER 22, 9 A.M.

|                                   |     |
|-----------------------------------|-----|
| 1.69 Water Power Eng. ....        | 4   |
| 2.05 Mech. of Machines .....      | 3-G |
| (2 hours)                         |     |
| 2.20 Applied Mechanics .....      | 3   |
| 5.651 Chemical Pri., I .....      | 3   |
| 8.301 Atomistic Theories I .....  | G   |
| 10.46 Ec. Bal. in Chem. Ind. .... | G   |
| 13.011 Naval Arch. ....           | 3-4 |
| (2 hours)                         |     |
| Ec56 Corporate Org. ....          | 3   |
| M11 Mathematics .....             | 1   |
| M35 Diff. Equa. of Elec. ....     | 3   |

#### MONDAY, DECEMBER 22, 1.30 P.M.

|                          |   |
|--------------------------|---|
| 1.24 Ry. & Hy. Eng. .... | 4 |
|--------------------------|---|

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## Notices and Announcements

### OFFICIAL

#### 5941 RECENT DEVELOPMENTS IN SCIENCE

The eighth meeting will be held Thursday, December 4, at 4 P. M. in room 10-250. Professor S. C. Prescott, Head of the Department of Biology and Public Health, will talk on Recent Applications of Bacteria in Tanning.

#### G.S. 46

Men interested in debate report to room 2-190 today and Thursday between 1 and 2. Mr. D. M. Fuller, instructor.

#### HYGIENE LECTURE

There will be a lecture by Dr. Lawrence on "General Health," Friday, Nov. 28 at 4 in room 10-250.

#### COURSE V SENIORS

Any Course V students expecting to complete requirements for B. S. degree by end of first term please consult F. G. Keyes in room 4-173.

### UNDERGRADUATE

#### CORPORATION XV

There will be a conference in rooms 1-190 at 1 P. M. on Friday, November 28, for an informal discussion of preliminary plans for the 1925 Spring Tour of Corporation XV. All men interested are invited, particularly those who intend to take the trip.

An opportunity will be given for men to join the Corporation at this time.

#### RIFLE TEAM

Candidates for the varsity rifle team are requested to report at the range Monday between 3 and 5 in the afternoon, or on Friday between 2 and 5.

#### COMBINED MUSICAL CLUBS

Freshman candidates for the business department of the Musical Clubs may interview Messrs. Walker, Hatley, or Garen any day at 5, in the office, 310 Walker.

#### M. I. T. COMBINED DRIVE

All pledges should be redeemed as soon as possible. They may be paid in the front office of the T. C. A. any day from 9 to 5 o'clock. Receipts will be issued.

#### WRESTLING COMPETITION

Wrestling managerial competition is open to all freshmen. Apply to A. A. office after 5 o'clock.

#### SOPHOMORE FOOTBALL PICTURES

The Sophomore football team will have their picture taken today at 1 o'clock in the new studio in room 3-410. Bring uniforms.

#### M. I. T. A. A.

Sophomores wanted for Publicity Dept. Report at A. A. office any day next week.

#### SWIMMING

All classes are asked to get together within this week to elect their captains for the big inter-class water carnival to be held just before the end of this term. Little time is left for organization.

#### FRESHMAN RIFLE TEAM

Report for practice hereafter on Mondays and Thursdays, 2:15-5:30. Range open Wednesdays, attendance optional. See bulletin board in range for new schedule of firing, to be effective Monday, Nov. 24.

#### VARSITY RIFLE TEAM

Practice days have been changed from Monday to Tuesday. Friday's practice will be held as usual. Candidates report either day between 2 and 5:30 o'clock.

#### SOPHOMORE PICTURES

The Sophomore football team will have their picture taken today at 1 in new studio in room 3-410. Bring uniforms.

#### VARSITY HOCKEY

Varsity hockey men report for practice at 5-6 P. M. tomorrow and 7-8 A. M. Friday. Those wishing to practice Thursday sign bulletin in main lobby.

#### TECH SHOW ORCHESTRA

There will be no rehearsal of the Tech Show Orchestra on Friday, November 28, 1924.

#### TECH SHOW

There will be a meeting of the Lyric and Song writers for the Tech Show this afternoon from 4:15 to 5:15 in north hall.

#### BOXING

Coach Rawson will be in the Hangar on Friday this week instead of Thursday. All men out for varsity must report more regularly.

#### A. I. E. E.

M. I. T. branch A. I. E. E. will take a trip to Simplex Wire and Cable Company December 2 at 2 o'clock. Men will meet in main lobby.

#### OUTING CLUB

The Outing Club is running a hike next Sunday afternoon. See the main lobby bulletin board for details and sign up there.

#### FALL CONCERT

Tickets may be procured from all the management at \$3.00 per couple. Public sale in main lobby from Dec. 1 to Dec. 5 from 12 to 2 P. M.