

## ENCOURAGEMENT IS GIVEN TO SENIORS IN TALK BY BUSH

Second Aldred Lecture Of Term  
Delivered By Prominent  
Executive

### ON INDUSTRIAL GROWTH

Students Of Science Courses  
Have Great Opportunity,  
He Believes

"Industry is a constant process of discarding old developments and bringing in new ones," said S. P. Bush, President of The Buckeye Steel Castings Company in delivering the second Aldred Lecture of the term to Seniors and Graduate Students Friday afternoon in room 10-250.

Mr. Bush stated that during his many years of travel throughout the world he found practically "nothing new under the sun." Philosophy, religion, literature, and art had very little new to offer, and any significant advances made have been chiefly along the line of science.

#### Technical Men Have Advantage

There are two distinctive things about science, namely the fact that the study of science emphasizes truth and honesty, and also the thorough understanding of natural laws which such study develops. Truth and honesty have a tremendous effect on one's character, as well as on trade and commerce in the industrial world.

Persons taking science courses, too, have a far better understanding of natural laws than those who pursue the ordinary arts courses, Mr. Bush believes. The analogies with natural laws made in later life are both remarkable and interesting, and in any profession, a knowledge of such laws is extremely valuable.

#### Three Periods Described

Following a brief reminder of the fact that scores of prominent men in various positions, including Secretary of State Herbert Hoover and the presidents of some of the largest railroads, were engineers, the lecturer gave a complete outline of the growth and development of industry in this country. Briefly, this development may be divided into three great stages; the periods of small enterprise, great competition, and the restriction of competition and monopoly.

The first of these periods was characterized by the simplicity of operations. The following era of great competition led to all sorts of confusion, the principle object in life at that time being "beat your competitor" and "the best man wins—the devil take the hindmost." It was during this stage of industrial development that labor first became organized. This period gradually merged into the present, which is characterized by the effort towards closer cooperation and the prevention of monopoly. Labor organizations have developed more rapidly and now constitute a vital force in industrial activity.

(Continued on Page 4)

## ANNUAL SOCIAL GIVEN BY FOREIGN STUDENTS

Mayor Quinn and Congressman  
Thayer Among Speakers

Last Saturday evening the fourth informal social get-together of the students from other countries attending the Institute and Harvard was held at the Cambridge Y. M. C. A. The entertainment was furnished by the students of both schools, and refreshments were served. The program included two outside speakers, Harry F. Thayer, Congressman-elect from this district and Mayor Quinn of Cambridge. About 125 students attended besides several members of the faculties of both schools. The room was decorated with the flags of the different nations represented.

Members of the social committee from the Institute were: S. M. Chu, President of the Chinese Club; Vincente Elzora, president of the Latin-American Club; E. S. Johnston, manager of the foreign students work of the Technology Christian Association; Masaru Kametani, second vice-president of the Cosmopolitan Club; and Arthur Sun, president of the Cosmopolitan Club.

## MANUFACTURERS AID EMPLOYMENT BUREAU

In the last issue of "This Week in Kendall Square," a bulletin published weekly by the Kendall Square Manufacturers Association, an article appeared requesting members of the Association who might have odd jobs about their plants that could be done by men working their way through the Institute, to report them to Mr. G. G. Speer of the Undergraduate Employment Bureau of the Technology Christian Association. The article appeared after the Employment Bureau had given the Association a call for work and says in part: "It strikes us that young men with gumption enough to attempt to earn their way through such a school as this, are particularly deserving of all the help we can give them." It is hoped that this will aid materially in obtaining employment for Institute men desiring it.

The Employment Bureau knows of a few places where men who may change residence next term can get rooms for doing janitor service, and also board for acting as waiters. Any undergraduates knowing of jobs for the Christmas vacation which they cannot take care of are asked to report them to Mr. Speer at the office of the Christian Association.

## NOMINATIONS MADE FOR PROM POSITION

Juniors Will Select Five Men  
By Preferential Vote  
Wednesday

Thirty-two men were nominated by the Junior Class last week for the five positions on the Junior Prom Committee which are to be filled by a class election next Wednesday. This number shows a big increase over last year, when 20 men were candidates for the committee.

The men nominated are: C. A. Bianchi, E. N. Bidwell, A. S. Brookes, L. B. C. Colt, W. W. Criswell, E. J. Doolittle, J. A. Drain, Jr., William Forrester, A. W. French, Jr., I. W. Gleason, M. M. Greer, E. B. Haskell, C. S. Hoffman, Jr., B. T. Humphreyville, J. B. Jacob, William James, H. W. Jones, E. F. Knight, H. E. H. Knight, K. S. Lord, D. K. Luster, Raymond Mancha, Jr., W. F. McCornack, Leonard Remington, Charles Rich, R. W. Rogers, D. A. Shepard, M. S. Smith, G. V. Steele, F. E. Walsh, Jr., J. E. Walker, Richard Whiting.

#### Preferential System Used

The polls will be located in the lounge in the basement of Building 5, and will be open from 8:30 till 5:30. The election will be run according to the rules governing all class elections, and the preferential voting system will be used. Only Juniors will be allowed to vote. As in all other elections, all forms of electioneering at the polls is prohibited.

There is still some doubt in the minds of the student body on how the preferential system works. The voter should place Arabic numerals beside the names of the candidates in the order of his preference for them. He may number as many as he likes, but the real value of the system is attained only if he numbers those candidates whose records and personal qualifications are known to him.

## Technology Students Succumb To Cross Word Puzzle Complexities

Two Puzzles Already Received  
Promise Hectic Night  
For Puzzle Fans

Engineers, the usual die hards of any age and those who tend to stick to the conservative policies of the times have at last become modernized. Technology students have a bad case of the "cross word puzzle complex," two puzzles already received by the Cross Word Puzzle Editor of THE TECH showing that the Institute has at last succumbed to the fascinations of these brain racking instruments of torture.

The two puzzles received since the announcement of the publication of cross word puzzles was made in last Friday's issue, indicate that the engineer has a method all his own for composing and solving cross word conundrums.

Many of the words are those of a

## FALL CONCERT OF MUSICAL CLUBS IS ATTENDED BY MANY

Each of the Instrumental Clubs  
Appear Once During  
The Evening

### DANCE FOLLOWS CONCERT

Despite the limited ticket sales, Walker Memorial was filled to capacity Friday evening on the occasion of the Combined Musical Clubs thirty-ninth annual Fall Concert. As the management had foreseen and predicted, the limitations were just enough so that the floor was not too densely peopled at the dance following the performance. The program was enthusiastically received and was productive of much comment from those who had seen the clubs at work last year.

Each of the clubs rendered two numbers except the Glee Club which made two appearances singing two numbers at each appearance. Three of the numbers on the program were specialty acts. In spite of the fact that each of the instrumental clubs made only one appearance, the Banjo and Mandolin Clubs and the Dance orchestra certainly carried the majority of the applause. One of the matrons was heard to say that the instrumental clubs had greatly improved their offerings over those of last year.

#### Dance Follows Concert

Of the specialty acts, Mancha and Shepard's banjo duet was the high spot of the program. The manner in which the pair manipulated their instruments was the feature of their appearance. One would perch on the other's knee and then each would finger his own banjo and pick his teammates'. The audience seemed rather surprised when, during a slight break in the number which was being rendered, the two would change instruments and continue playing as before.

K. M. Peterson '28, who rendered two violin solos, was well applauded. The dance following the concert from 10 until 2 o'clock seemed to be the main feature of the evening for the usual crowd arrived after the performance was finished. The stag line showed markedly the efforts of the club's management to prevent an excess of this commodity, although it can hardly be said that the number of stags was entirely negligible. One of the numbers was varied a trifle by the additional feature of a spotlight. Most of the lights in the hall were turned off or dimmed and a colored spotlight, playing from the moving picture projection room at the rear of the hall, covered the dancers with little colored disks of light. Refreshments were served about midnight.

## NEXT ISSUE OF VOO DOO TO APPEAR WEDNESDAY

The December issue of Voo Doo will be put on sale next Wednesday. Announcements will be made concerning special issues for January and February, the former to be a Beauty Contest number and the latter a Boston number. The cover of the December issue is done in blue and orange and was drawn by Virgil Quadri.

## Engineers Fight B.U. To 3-3 Tie at Arena Friday as Hockey Season Begins

Team Shows Great Improvement Under  
Coach Wiggett—B. U. Requests  
Return Engagement

In the first intercollegiate hockey game played on the Arena surface this year, Technology's puckchasers fought the Boston University sextet to a 3-3 tie last Friday night. The contest was resplendent with a number of clever plays by both teams, although at times the game tended to become a bit slow. Both aggregations displayed a better brand of hockey than in their engagement last year, both teams having developed wonderfully in the short time in which the new coaches have had them in hand.

At the end of the last period the teams were deadlocked in a 3-3 tie and two extra periods of 10 minutes each failed to produce any change in the final score. Boston University has already requested for a return game to be played on the arena surface on the 19th of this month, but due to the fact that final examinations come at this time, Manager C. E. Poore '26 felt that the men could not play at this time and has notified the B.U. management to this effect.

## ANNOUNCE WINNING BOIT PRIZE ESSAYS

Four \$25 Awards Made for Third  
Semester of the Last  
School Year

Four men were awarded Boit prizes in English Saturday for written work done in the third term of Sophomore English last year. The winners are J. B. Coleman '26, W. P. Lowell, Jr. '26, M. B. Morgan '26, and W. W. Boyd Sp.

The Boit prizes are from a fund of \$5000 left in 1921 by the late R. A. Boit to the Institute for the purpose of awarding prizes for the best work in Sophomore English themes. The prizes are awarded on the basis of the required work of the courses, so that all Sophomores have an equal opportunity of obtaining them.

According to Professor H. G. Pearson of the Department of English and History, the qualities for which the prizes are given are not so much perfect grammar, spelling, and punctuation as ideas and ability to express those ideas.

The prizes are usually given to three men each term, and three awards of \$25 each were made each of the first two terms of last year. The judges who awarded these prizes were Professor R. E. Rogers, Professor Winward Prescott, and Mr. C. F. Lyman.

## Authorities Take Steps to Prevent Dormitory Thefts

Dormitory Board Requests  
That Students Keep  
Doors Locked

In an effort to curb the number of petty robberies which have been occurring recently in the dormitories of the Institute, the Dormitory Board consisting of Dean H. P. Talbot, Bursar H. S. Ford and Professor L. F. Hamilton have instructed the porters in the dormitories to lock all corridor doors found unlocked and to prevent as far as possible the entrance of peddlers to the building.

The residents of the dorms have been requested to cooperate in the attempt to prevent theft by keeping the doors to their rooms locked at all times when they are not in the dormitory buildings and by refusing to deal with peddlers, solicitors, salesmen and the like. The committee has also asked the students to report the presence of such people to the superintendent or the watchman of the buildings.

Authorities at Technology expect an early arrest in connection with the thefts. The frequency with which the robberies have occurred led at first to the suspicion that the thefts might have been an inside job but the police are now convinced that they are the work of a person who is not connected with the Institute.

The game started off with a rush, when Capt. Kontoff of B.U. carried the puck down to the engineer's goal. Deignan, by some fast work, prevented a goal from being made. The combination play was too used to a great extent by both teams, B. U. showing greater ability in this line. Goldfine, on a pass from Lawless shot the first goal of the game for the Terrier sextet. This was followed in less than a minute by another goal, when L. Kontoff took the puck out of a scrimmage and slipped it into the net for Boston Universities second point. A fine shot from the center of the rink by Randall of the engineers scored the first point for Technology. The period ended with B.U. leading 2 to 1.

**Play Extra Time**  
The second period opened slowly, but play picked up rapidly. After about 8 minutes of playing, Freeman shot a goal on what looked like an offside pass, tying the score for the engineers. The period ended without further scoring.

The third period started off fast, with both teams trying to break the tie, and L. Kontoff again took the puck out of a scrimmage after 27 seconds' play and took it down for the Terrier's third tally, giving them a one point lead over Technology. The Tech pucksters stormed the B. U. goal with shots, but clever defense work by Capt. Kontoff and Viano staved off the attack until it looked like a win for the Terriers. Then, with two minutes to play, Morton of the engineers sent a clean shot into the net, Goaltender Morton of B. U. not having a chance to keep it out. The last period ended with the score tied at 3 all.

Two extra ten minute periods were played without producing a change in the score. The Tech sextet made some clever shots in these periods, Morton's fine goaltending saving the game for B.U.

**Future Meets Announced**  
The game was characterized throughout by clean playing on both sides, there being but one penalty in the entire game. Credit for this may be given to the

(Continued on Page 3)

## REGISTRATION BLANKS WILL BE OUT TOMORROW

Registration material for the second term will be ready for distribution tomorrow morning, according to a notice issued by Registrar J. C. MacKinnon. Material will be distributed to freshmen and upper classmen separately.

Freshmen who take Chemistry, will receive their material in their chemistry laboratory sections; other first year men must go to Professor Mueller's office in room 4-256. Material for upper classmen will be distributed in the main lobby as has been the custom in previous years.

In order to avoid the fine of five dollars imposed for late registration, the blanks must be returned to room 3-105 before 1 o'clock Tuesday, December 23. This allows two weeks for arranging schedules.

## CALENDAR

- Monday, December 8  
4:00—Optical demonstration in room 3-370. Explanation of Contour Measuring Projector.
- Tuesday, December 9  
6:30—Freshmen crew dinner, Grill Room, Walker.
- Wednesday, December 10  
8:30 to 5:30—Juniors vote for Prom Committee, lounge, basement of building 5.

**A Record of  
Continuous  
News Service  
for 43 Years**



**Official News  
Organ of the  
Undergraduates  
of Technology**

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

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In Charge of This Issue:		C. E. McCulloch '26	

**SAVE THE LAWN!**

MAY we once more call the attention of the student body to the ragged appearance of the grass at the corners of the paths in the Great Court? Several times before mention has been made, both in this column and in the Lounger's daily sermon, of the care needed to preserve a reasonably decent looking lawn in front of our main group of buildings. Very little effort is required on the part of the undergraduates. All that is necessary for them is to take one or two additional steps on their way to class. The extra exertion needed to walk around a corner is scarcely noticeable, yet it means the saving of our lawn. On Saturday, after the heavy rain of the night before, things were quite muddy, and footprints inches deep were to be seen where thoughtless men had tramped over the grass. If the Corporation was willing to go to the expense of sodding the court, it is more than fair that we do our share to keep up the good work.

Do you remember the signs on Boston Common not long ago "Keep off the grass—if you want to roam, join the Navy?" Do you want to have signs like that put up here to remind you that the paths and not the grass should be walked upon? Would you prefer to have a bit of chicken wire fencing put up at each corner to keep wayward children on the straight and narrow path of which we heard so much in our Sunday School days? Wire barriers would be most unsightly, but unless people stick to the walks, they will be needed. Won't you do your share to keep the place looking as it should? It will not be hard, and the improved appearance next Spring when the grass starts to green up will well repay you for the slight inconvenience of not cutting corners.

**THE QUINTESSENCE OF QUITTING**

IN talking to some new men we have observed that many of them are becoming disheartened in their work as the end of the term nears. Some are ready to quit, practically broken in spirit, and see little chance for a sufficient measure of success.

The trouble here is a weakening of morale. The strenuousness and the rigor that go with the culmination of the term's work take their toll in frenzied discouragement. These men need to rebuild their morale, and to do so they need a touch of inspiration.

Men admit defeat only when they lose confidence in themselves. We all lose confidence at times—every turn of fate seems to conspire against our success, and we feel at outs with the world. It is for a man to believe himself equal to the occasion at such a time such as this, and doing so, he can rise to heights and overcome his difficulties.

Any Old Timer will agree that everyone goes through these cyclic periods of depression at the end of the term. They are never so bad as they seem; in fact they are in themselves a gross exaggeration. When they occur it is time to draw upon that divine spark within oneself—it has enormous potentialities—and to fight and to see it through. The inferiority complex, the quintessence of quitting, can be driven back to the subconscious. "They shall not pass" will be smothered in the act of passing.

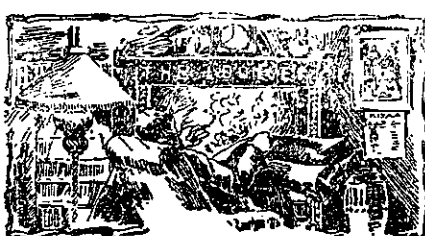
These last two weeks are the crucial weeks, and the quality and intensity of the work during them will determine success.

The time has again come for the freshmen to express their desires in the matter of whether or not they will take Physical Training or help their Alma Mater along in athletics. Men in the Class of '28 have until December 13 to make manifest their desires along this line, and to sign up for whatever sport they wish to substitute for Monkey Drill.

**MORE ELECTIONS**

WITH the second trial now coming of the new preferential balloting, it is going to be a matter of interest to see how the system works out in a case such as this when five men are to be elected for the same office. The Junior Prom Committee is one of the most important social committees of the Undergraduate World. The Junior Prom is, with the sole possible exception of the Senior Prom, the most important single social affair of the year, and it behooves the members of the Class of 1926 to cast their votes wisely and well.

It will be of further interest to see if the Class of 1926 is going to let the Class of 1928 beat them out in number of men voting. In the recent freshman elections, over seventy-five percent of the men in the class voted. The membership of the Junior Prom Committee is of fully as much importance to the Class of 1926 as the officers of the freshman class are to that class. Will the Juniors feel the urge to exercise their right on Wednesday?



At last the secret of success has been unearthed! The Lounger has found a way of passing examinations with a minimum amount of worry and labor. As this method has enabled the Lounger to pass his last two Triple E quizzes he feels justified in passing it on to his readers as a sure fire proposition. This remarkable method may not be new to some Technology men, but this may at least refresh their memories so that in the coming examination period they may pass with as little bother as is humanly possible. Having now used up much valuable space in expounding the virtues of our system, we will now let out the secret. The procedure is to prepare for the exam in question by getting a very few hours sleep—say from five to nine in the morning. Unless one is a super man, he will feel a bit woozy. This helps matters more than one would suspect, as one is too sleepy to cross out the correct solution to the problem about five minutes before the hour is up and substitute another and incorrect answer. Then feed up on aspirin (if you can't get anything better) to keep the head from splitting, and one may no longer fear anything. With such preparation, it is possible to achieve success on the hardest exam. Try it.

A question that has been troubling the Lounger for some time was brought home with more force than ever before at the Fall Concert. Why do people go to dances if they are so bored with them? The Lounger got a great deal of amusement by noticing how few couples seemed to be really enjoying themselves. Some of them looked bored, some of them even unhappy. Occasionally joyous couples with cheery smiles would be seen for an instant, but the average look was pretty glum! The Lounger goes to things like that to have a good time. He can not understand the attitude of those who take it as a duty. Will some one please explain?

Signs of the times are visible in all quarters. Saturday night, the Lounger tried to find someone in his house to go to a show with him. As he approached each man there, the response of "No. I've got to study," came forth. When things have come to pass that Technology men study on Saturday evening, it becomes apparent that something is in the air that is not there earlier in the term. There is a noticeable tension and worried appearance pervading the whole atmosphere of the Institute.

The Lounger sees by Saturday's Herald that one Doctor Straton gave a speech, or rather lecture, at Harvard the other day, following W. J. Bryan's policy of disproving Darwin. When a man gets up before an audience such as that at Harvard and talks on such a subject for two hours, he has at least the courage of his convictions. The Lounger has never succeeded in hearing a lecture on this subject, and so he has no idea of the type of arguments that are put forth, but he is here to state that he is sufficiently prejudiced to feel that any proofs that will convince him of the fallacy of evolution will have to be pretty darn convincing.

The Lounger has heard as much as anybody else about the alpine abilities of Fords, and has seen them do some startling things in the movies and elsewhere, but he must admit that there is one Ford which has done more than any he has ever seen or heard of, and that is the Henry in the machine tool lab. The other day the Lounger was just leaving a heat lecture, in the usual daze which said lectures produce, and when he opened the door and walked into the machine tool lab to be confronted by the spectacle of a real live Ford, his first thought was that he must still be asleep. Surreptitious pinching and the otherwise normal aspect of the machine tool lab soon convinced the Lounger that he was not still in the midst of a nightmare, and that there really was a Ford in the lab. The Lounger certainly has to take off his hat to that car, knowing as he does all too well what those three weary flights of stairs are.

We think Henry Ford really ought to be told about this feat of one of his "universal cars." He could find out what exceptional parts this remarkable car has which made it possible for it to get into such a place, and starts manufacturing stair-climbing Fords. Think what an enormous demand there would be for such a vehicle—every student in Technology would certainly want one. It certainly would be a help to be able to drive your flivver right in the front door and up the stairs to the heights where drawing or Mil Sci hold forth.

The Lounger can't help wondering what this poor innocent flivver was seduced up into the machine tool lab for. He is afraid the machinists have dire designs on the car—probably it is going

**The Lounger's  
X-Word Puzzle**

Following is the first Cross-word Puzzle that was handed in for THE TECH'S "X-word puzzle column. The Editor did not pass it, and it was caught by The Lounger on its way to the waste-basket. The Lounger thinks that it is particularly good in view of the fact that it seems to have potent possibilities for a double solution. If the design seems a trifle irregular, it is because the G. M. refused the Lounger an appropriation to have a "cut" made, so the Lounger had to have the poor printer set it up with type and rules and it's a nasty job.

1	2	3
4		5
6	7	

**Definitions:**

- Horizontal:  
1. A domestic animal.  
4. An exclamation.  
5. An article.  
6. What a domestic animal does with does with its tail.
- Vertical:  
1. Another domestic animal.  
2. A vowel.  
3. A child's game.  
4. The symbol (chemical) for Argon.  
(N.B.—The author of this puzzle must have been a farmer.)  
The solution will be published in the not too far distant future.

to be subject to vivisection, to see what makes it go. Horrible thought! It's bad enough to have the biologists smelling up building 10 with their cat lab, without having the machinists start a "Ford lab."

The Lounger decides that it is never too late to learn, for Friday, on seeing a surging mob gathered on the second floor of Building 10, he was impelled by his sense of curiosity to investigate. When he arrived at the scene of action, the shock was not long forthcoming—The Freshmen were actually crashing the door of an examination room! Miracle of miracles! To think it would have ever come to pass in this great engineering school. Further investigation brought out the news that they were having their intelligence tested or "proved" as some modestly put it. One despairing pushee was heard to remark that he was glad he didn't have a shine, and that he was also glad he had a good understanding, in spite of the fact that both of them were pretty well stepped on.

**Communications**

Editor of THE TECH:  
There is a most deplorable condition on the third floor of Walker Memorial. There are not sufficient or proper drinking facilities available for the use of persons using the gymnasium.  
There is only one drinking fountain that I have been able to find on the whole floor and that is by the stairs at the front of the building. This fountain

**Play Directory**

- COLONIAL: "Stepping Stones." Has been here long enough for everybody to know how good it is.  
COPLEY: Monday, Tuesday, and Wednesday: "The Arcadians," annual Junior League production. Thursday mat. on "Captain Apple-Jack."  
HOLLIS: "The Nervous Wreck." Side-splitting nonsense. Last week.  
PLYMOUTH: "The Potters." Everyday humor.  
ST. JAMES: "Chicken Feed." Comedy by Guy Bolton.  
SELWYN: "Quarantine." Comedy with amusing complications of a shipboard romance.  
SHUBERT: "My Boy Friend." New musical comedy, based on the cartoon character "Gus the Bus."  
TREMONT: "Top Hole." Musical comedy, with a plot and lots of other good points.  
WILBUR: "Moonlight." Last week.



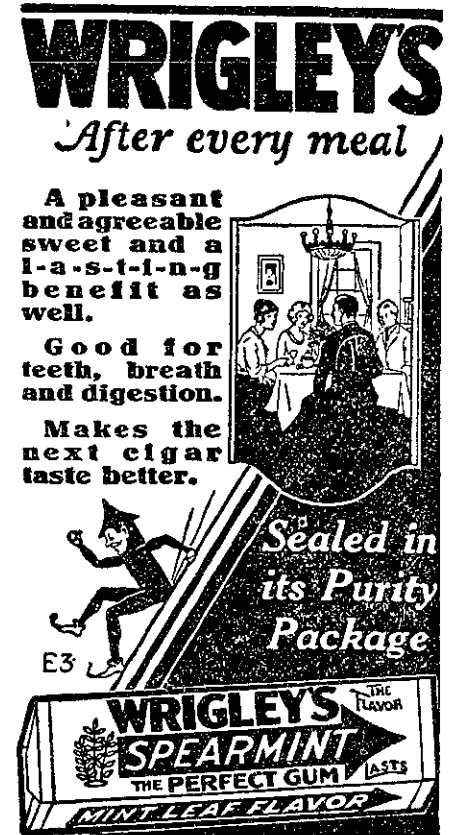
tain is not of an approved type and the present adjustment of it is very unsatisfactory. A person trying to get a drink will find that the water hardly rises above the nozzle so that one often touches the lips to the metal even when using the greatest care.

In the interests of health there should be a different type of bubbler installed. There are several makes on the market that are so constructed that it is impossible to touch the lips to anything except the flowing water.

The poor satisfaction that can be secured at this fountain has brought about a more unhealthful condition in the wash room. For some time there has been a dipper hanging above one of the wash bowls and persons playing basketball or otherwise exercising can be seen coming out and using this in preference to the very unsatisfactory bubbler.

In this regard, might it not be well to install a sanitary bubbler in one of the wash bowls for the use of the persons in the locker and shower room. There are more than enough wash bowls so that there would be no deprivation in the use of one of them for a drinking fountain and there would be an opportunity to get a sanitary drink after your exercise.

P. K. Bates '24.





# HANDICAP MEET DRAWS MANY CONTESTANTS

## Runners Desert the Cinder Path for Board Track As Wintry Season Draws Near

### Ray Jack Continues Sterling Performance In Pole Vault—Coach Doc Connors Seems Pleased with Showing

Featured by the performance of the freshman in the pole vault who cleaned up the event, the fourth handicap meet issued in the winter season on the new board track and in the Hangar gym. It was the first time that the board oval had been used for a meet, a circumstance that kept the times in the running events down to a mediocre level. Doc Connor seemed to be satisfied with results of the meet as it showed that the men are coming up rapidly in form and will be going strong after a few more meets.

In the last meet it was the new men out for track who were the winners in the various events, however, Saturday the "regulars" came to the fore to take away the first position in the majority of the events. That is they did this in nearly every event, for the pole vault was a competition between the frosh, pure and simple.

Ray Jack showed up as strong as ever, and jumping at scratch he took away second place with a jump of 10 feet 9 inches. Gray last week tied with Hallihan for first place when he jumped with a handicap of 18 inches. Saturday Doc cut down his handicap to an even foot and it proved just enough for him to win.

Chink Drew failed to enter the high jump because he was a little stiff to attempt to leap over the bar; accordingly, he kept his exercise to warming up on the track. By clearing 5 feet 4 inches plus a handicap of five inches Celett won the event over Fort, Knight, and Peas who were tied in second position. Forte jumping at scratch made a fine jump of 5 feet 7 inches; Browning, the other man jumping at scratch, was away off form and could only make 5 feet 4 inches.

**70 Yard Run Is Close**

The exclusive frosh event, the 12 pound shot, for which Doc Connors had personally offered prizes, failed to attract the freshmen. The result was the match was a pickup affair between men out for both the varsity and frosh teams. Doc seems to be having a devil of a hard time trying to drag freshmen out for this event, and all means of seducing the frosh have hopelessly failed. Doc wants to see a big group of men out for this event as there is no one at present that shows particular promise for next year's varsity and the spring frosh squad.

About the closest race of the day was the 70 yard dash which was won by K. E. Smith in 7 and 5-10 seconds. At the finish there was hardly any difference between the leading men, the places went to the men by inches, one could even say fractions of an inch. Wiebe ran a strong race from scratch in the final run after he had won the first heat in a jog, and was barely nosed out by Smith who had a handicap of 1 1-2 yards. Miller, a freshman who has been laid up with a strained ligament in his thigh made his first appearance in handicap competition and with a handicap of 2 1-2 yards took third position.

Fitzpatrick, running with a handicap of 9 yards, took first place in the 300 yard run which produced about the best time of the day, the winner stepping across the finish line in 36 3-10 seconds. For the board track this time was fairly good for there is every tendency for the runners to crowd on the turns as the track is not quite wide enough to be used for racing. Warner came in second and Tony finished in the last scoring position.

The 3-4 mile run was fairly interesting, although the time was ordinary. Gubby Holt, last years' cross country captain, and this year a graduate, ran strongly and led the field up to the last lap when he dropped back to fourth position at the finish. Gubby was a strong pace setter throughout the run and quickly passed the field early in the race; however, K. A. Smith, who had a handicap of 20 yards, was not to be denied, stepping across the line several paces in front of the rest.

Following is the summary of the meet:

Seventy-yard dash—Won by K. E. Smith (1½); second, J. S. Wiebe (scratch); third, G. V. Miller (2½); fourth, Fitzpatrick (2); fifth, A. H. Brown (2). Time—7:5.

Three hundred-yard run—Won by Fitzpatrick (9); second, Warner (6); third, Tony (4); fourth, Thomas (scratch) fifth, Stephenson (7). Time—36:3.

Forty-five-yard hurdles—Won by Guern (scratch); second, Collins (scratch); third, Fitzpatrick (scratch). Time—7 flat.

Three-quarter-mile run—Won by K. A. Smith (20); second, Bishko (65); third, McIntire (70); fourth, Holt (40); fifth, Bragg (75). Time—3:56:3.

High jump—Won by Celett (5n.), 5 ft. 9 in.; second, Fort (scratch) 5 ft. 7 in.; third, Knight (2 in.), 5 ft. 7 in.; fourth, Pease (5 in.), 5 ft. 7 in.; fifth, Browning (scratch), 5 ft. 4 in.

Pole vault—Won by Gray (12 in.), 11 ft.; second, Jack (scratch), 10 ft. 9 in.; third, Hoffhan (scratch), 10 ft. 9 in.; fourth, Howard (12 in.), 10 ft. 8 in.; fifth, Guerlin (14 in.), 10 ft. 2 in.

Twelve-pound shot—Won by Churchill (15 ft.) 46 ft. 6 in.; second, Miller (15 ft.), 44 ft. 10½ in.; third, Wiebe (10 ft.), 44 ft. 6 in.; fourth, Brodsky (scratch), 44 ft. 4 in.

**FRESHMAN CREWS TO HOLD DINNER**

**Coach Dan Sayre To Outline Plans—Bill Haines Will Speak**

Tomorrow night the freshmen oarsmen will hold a dinner in the Grill Room of Walker. Dan Sayre, coach of the freshman crews, will give a talk, in which he will outline the plans for the coming term. Coach Bill Haines will also be present and will say a few words. In addition, Coach Farnsworth, who is especially interested in coxswains, will have something to say.

This year the number of freshmen turning up at the boathouse greatly exceeds that of previous years, and it is Coach Sayre's intention to further stimulate the interest in rowing during the monotonous winter months. From now on until the commencement of the Spring season the freshmen are forced to do their practicing on the machines. Having to report at the boathouse twice a week for almost four months becomes rather tiresome, and many men are apt to drop out. Dan is in hopes of avoiding this and is planning to make things interesting for the men who remain in training until Spring.

Already Bill Haines has started something that is somewhat of an inducement to crew men. Every man on a crew, when finished with his practice is presented with a cup of hot cocoa and a few crackers. In giving the men cocoa it is Bill's intention of, not only making the boathouse a more sociable place, but also of warming the men up before they go out into the cold.

**WALTHAM POST BOWS TO INSTITUTE RIFLE TEAM**

In a shoulder to shoulder match held at the Technology range Saturday afternoon, the varsity rifle team defeated the Waltham Post of the American Legion by more than 100 points. The highest individual score was turned in by Fielding, of Technology. Perfect scores from the prone positions were made by Fielding and Peterson.

## FROSH PROSPECTS FOR BASKETBALL TEAM LOOK GOOD

Attractive Schedule Arranged—Will Meet Varsity Next Friday

### MEN PRACTICING HARD

According to the latest reports on freshman basketball everything points to a successful season. The men have been showing up well at practice and, in general, look fairly promising. An attractive schedule has been arranged which starts soon after the opening of the second term. Friday the varsity are to play the freshmen in the hangar gym.

Final cuts for the freshman first team will not be made until Tuesday night; they stand now as follows: N. C. Estes, L. J. Kelley, Robert Sealy, Jr., G. D. Mock, J. H. Bell, E. A. Bianchi, Morris Cohen, Richard Benson, Jr., A. D. Ross, and F. D. Riley. Riley played left half back on the freshman field day football team, Mock played left end, Estes was a full back, and Benson played right half back, which gives the freshmen a rather exceptional representation of the field day football team. Five more will be added to this list when the final cuts are made.

**Practice Three Times a Week**

Practice continues three times a week, on Tuesday and Thursday from 4-6, and on Friday from 4-5; but this next Friday at five o'clock the freshmen are to meet the varsity basketballers in the hangar gym for the first contest of the season. The freshmen look pretty light, but they make up for that by their speed; so there isn't any reason why they should not be able to hold the varsity reasonably well in hand next Friday afternoon.

Following is the freshman schedule:

Jan. 10—Northeastern Freshmen (H) 17—Dean Academy (A) 20—Brown University Freshmen (H) 24—Phillips Andover Academy (A) 31—Boston University Freshmen (H) Feb. 4—Tufts College Freshmen (H) 18—Brown University Freshmen (A) 21—Pending (H) 28—St. John's Prep. (A) March 7—Harvard Freshmen (A)

## Announce Track Meet For the Winter Season

Jan. 14—Harvard Relays, Soldiers Field 21—B. A. A. Games, Arena 28—Milrose A. A. Games, New York Feb. 7—Wilco A. A. Games, New York 14—N. Y. A. C. Games, New York 23—Amer. Legion Games, E. Armory Mar. 7—I. C. A. A. A. A., New York

## ENGINEERS AND B.U. TIE IN HOCKEY 3-3

Next Meet Is With Harvard at The Arena Thursday Evening

(Continued from Page 1)

coaches of the two teams, Dr. George "Chippie" Gaw of B.U. and Gerald M. Wigett of Tech, both of whom are well known locally as referees of repute. Technology will meet Harvard on Thursday night at the Arena, in what promises to be a fast game. Tech's showing in the B.U. game gives them a good chance of winning.

The schedule for the rest of the season is as follows: Harvard at the Arena on Dec. 11, Dartmouth at Hanover on Jan. 10, Army at West Point on Jan. 17, Hamilton College at Clinton, N. Y. on Jan. 22, Cornell at Ithaca on Jan. 24, Bowdoin (tenative) on Feb. 17. Several other games are being arranged.

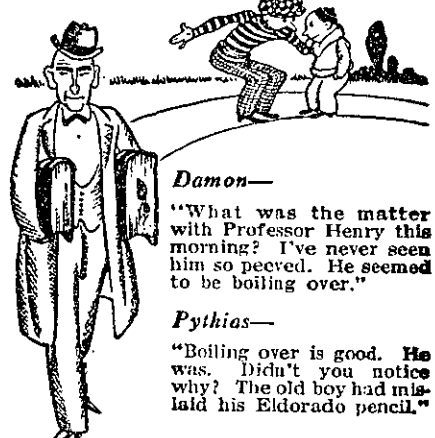
The summary:

The weather should be cold enough soon to flood the new rink in back of building 10. The rink is large and will offer a fine surface for the team to practice on. The Arena is rather out of the way, and the new rink will facilitate practices. The team is working

hard in early morning practices and should be in fine shape for coming games. Coach Wigett is emphasizing the combination play. The team attempted to use this in the B. U. game, but obviously did not have all of its fine points down.

M. I. T. Scribner, Lw. r.w. Niles (Capt.) L. Kontoff, c. c. Morten Lawless, r.w. Lw., Randall M. Kontoff (Capt.), Ld. Berkeley Viano, r.d. Ld., Zubrinski Martin, 9. g. Deignan Reteree—William Stewart. Substitutes—B. U. Fleming, Scott, Goldfine and Duane; M. I. T. Weisner, Crandall, Moulton, Richards and Cunningham. Time—Three 15 min. periods; two 10 min. periods.

The handicap meet Saturday showed the varsity holding its own for nearly the first time in such a meet. Apparently larger handicaps are needed by the freshmen. Ray Jack contributed some fine work in the pole vault, and will be a big help to the varsity team



Damon—  
"What was the matter with Professor Henry this morning? I've never seen him so peevish. He seemed to be boiling over."

Pythias—  
"Boiling over is good. He was. Didn't you notice why? The old boy had mislaid his Eldorado pencil."

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## CHEMICAL SOCIETY TO HOLD DINNER

About 100 Students to Attend—  
Dr. F. G. Benedict Will  
Give Address

About 80 students have already signed up for the Chemical Society dinner to be held tomorrow in north hall, Walker at 12 o'clock. About 20 more students are expected to be present at the initial dinner of the society.

The luncheon marks a radical change in the policy of the society as formerly they held two or three smokers during the year. The society decided that they would experiment with noon luncheons to see if more men would get together than attended the smokers. The smokers were very expensive and made a big deficit in the funds of the society that was hard to make up. A small cover charge will be levied on those attending the luncheon in order to help defray expenses.

The society will have Dr. F. G. Benedict, director of the Carnegie Nutrition Laboratory, and a prominent man in his line for a speaker after the dinner. Dr. Benedict will speak on the "Nutrition Problems in Metabolism Research" and will attempt to explain the subject for the benefit of the engineer. The talk will include the problems of the chemist in building up the bodily tissues by nutrition.

The dinner is not held for members of the society only but is open to every student, whether or not he is planning to join the society. An opportunity will be given to all those interested in the society to sign up after the dinner. To defray the expenses members will be charged 50 cents while non-members will be charged 65 cents.

## ALDRED LECTURE GIVES SENIORS ENCOURAGEMENT

(Continued from Page 1)

"Stabilization, standardization, and specialization" said Mr. Bush were the three things most needed in industry after the World War, according to a report made by Secretary Hoover who was appointed Commissioner of Engineers to investigate industrial conditions. Although the training afforded by an engineering school is most valuable in fitting one to understand the principles of establishing equilibrium, education is after all only a foundation, and responsibility is built upon what one learns from experience.

In concluding, Mr. Bush expressed the opinion that the types of men needed in industry are industrial engineers, plant engineers, engineering salesmen, and the executives. The opportunities afforded to the graduate of a technical school are limitless, and the material reward is abundant.

## Crew at Technology Has Developed Remarkably Since Coach Bill Haines Has Been Here



COACH BILL HAINES

On the first of January of this year Bill Haines came to the Institute to take complete charge of all Technology crews. As head coach he has done wonders during the past twelve months. Prior to his arrival, the Beaver crews were not very prominent in the eyes of the outside crew enthusiasts, but as a result of last year's record the Technology oarsmen are now ranked with those of other colleges. With very little equipment and much less material, Bill was able to round an eight into good enough shape to beat Cornell last year.

In past years Bill has made a record for himself that is hard to beat. While in England he defeated Jacob Terrill, champion of the river Lee, in a single scull race over the Thames Championship Course. During the years of 1890 and 1898 he rowed in 12 races, winning most of them. In these races he stroked both four and two oared shells, winning the National Regatta at Putney on the Thames for three successive years. On the same river he won the punting championship eight times, and in 1898 he defeated George Buear, the champion of England, in a single scull contest.

It was not until the year 1905 that Bill commenced coaching. Still in England, he started by coaching the varsity of the Royal English College at

Cooper's Hill, Surrey. After remaining there for four or five years, winning most of the races, he went on to the London Rowing Club. Under his supervision this club took second place in the Grand Challenge Cup Race at Henley.

After coaching numerous rowing clubs in many European countries, including Norway, Germany, and Austria, Bill came to America. In this country he first coached the Union Boat Club. During the 14 years that he coached there they won three times at the American Henley Regatta, and also several important races at the National Regatta. Having made such a good record there, Harvard University obtained him. At Harvard he coached the varsity for five years, during which time Yale was defeated three times. From Harvard he was obtained by Technology, and during the past year he has kept up his amazing record.

When Bill first came to the Institute, crew was almost unheard of, while at the present time it is the most talked of, and the most promising sport at Technology. Where there used to be only one set of rowing machines at the Boathouse, there are now four; where there used to be one launch, there are now three; and where there used to be about 12 men coming out for crew every night, there are now nearly 100. He has created a crew spirit and a real interest in the sport that is bound to stay as long as he is there.

## Society of Arts Announces Talks On Science for the Coming Year

A series of Popular Science Lectures to be offered during the coming winter under the auspices of the Society of Arts of the Massachusetts Institute of Technology has just been announced. These lectures will be given on Sunday afternoon at four o'clock in the Institute buildings, Cambridge, and will be open to the public free of charge, their purpose being to present in a popular manner various scientific subjects of current interest. The speakers are eminent authorities and investigators in their chosen field of science, and will illustrate their lectures by numerous experiments, demonstrations and lantern slides.

The first lecture of the series on Sunday afternoon, December 14th, will be given by Professor Harlow Shapley, Director of the Harvard College Observatory on "Some Celestial Phenomena and the Coming Eclipse of the Sun." This subject is of special interest on account of the coming total eclipse of the sun occurring on January 24, 1925. The eclipse will be 99 per cent in Boston, and "total" a little farther south. The lecture will be illustrated by numerous experimental photographs as well as recent photography of other celestial objects such as star clusters and nebulae.

### Will Discuss Radio

The second lecture of the series will be given January 11th by Professor Augustus H. Gill of the Department of Chemistry at the Institute on "The Chemistry of Motor Fuels." This lecture will be illustrated by numerous experiments illustrating the properties of gasoline, kerosene and other chemical sources of motive power.

On February 15th Professor Newell C. Page of the Department of Physics will lecture on "Electrical Discharges in Gases and Vacuum," a spectacular as well as timely subject in as much as most of the recent advances in our knowledge of the nature of electricity have been derived from researches in this field of physics.

The last lecture of the series will be

## FACULTY QUIET ON TWO TERM CHANGE

Refuse to Offer Opinion—Know  
Other Who Will Do So,  
However

Abundant examples of various methods of "passing the buck," as the vulgar phrase has it, is the only result of an attempt made to canvas the Faculty opinion concerning the adoption or dismissal of the plan for a two term year. Every member of the Faculty consulted was unwilling to give an opinion himself, but was able to suggest someone who might have something to say.

The individual members of the Faculty refrain from committing themselves to a definite stand on the matter because they do not wish to anticipate the decision of the entire body. When this decision will be made, or what the decision will be, no one will venture to guess, although it is certain that the matter will come up for discussion at the regular meeting of the Faculty on Wednesday of this week.

Student opinion is generally that "no news is good news" and that the lack of activity on the part of the Faculty indicates that they have lost their enthusiasm for the plan in the face of the determined student opposition. They feel that the longer the decision is delayed, the more likely it is that the plan of the committee will be adopted. This alternate plan calls for the retention of the three semester year with some changes from the present calendar.

At the meeting of the Faculty held two weeks ago, the proposed change met with unexpected opposition and since the Faculty has preferred to be silent on the matter it is hard to say whether or not the proposed change will be made. Several of the professors have admitted casually that the three term system fits in fairly well with the curriculum in their various courses and that a change to the two semester plan would necessitate much confusion in rearranging the course.

The Faculty meets Wednesday for the final decision in regard to the proposed two term change. THE TECH will be glad to publish in the Wednesday issue communications which any of the student body may desire to write on the matter.

## Notices and Announcements

### OFFICIAL

#### 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.

#### MILITARY SCIENCE

All Juniors must sign pay-roll before Dec. 10. Call at room 3-310.

#### UNDERGRADUATE

**SQUARES AND COMPASS CLUB**  
The Executive Committee of Square and Compass will meet today in the Committee room of Walker Memorial at 5.

#### T. C. A. EMPLOYMENT

Due to the fact that conferences and interviews have taken so much of the Directors' time thereby preventing outside solicitation of work it becomes necessary to limit conference hours as follows:

Mondays from 2 to 5:15; Wednesdays, 2 to 3; Thursdays, 4 to 5:15; Fridays, 2 to 3; Saturdays, 11 to 1.

#### S. A. E.

Those who desire to join the Society of Automotive Engineers may get application papers signed up in the offices of Prof. Warner (5-229) and Prof. Fales, Mr. Chayne (1-131). For information see Yoshio Ogawa '25.

#### ITALIAN

Will those interested in petitioning for a new course in the Italian language please drop their names and addresses in Box 272 main lobby.

#### OPTICAL DEMONSTRATION

Mr. Henry Kurtz, of the Bausch and Lomb Optical Company, Rochester, N. Y., will demonstrate the Contour Measuring Projector and explain its application to Mechanical Work.

This demonstration will be given on Monday, December 8, at 4 P. M. in room 3-370.

### DARTMOUTH CLUB

The Dartmouth Club of Technology will hold a meeting in Walker Memorial at 5:30 next Monday.

#### WRESTLING COMPETITION

Wrestling managerial competition is open to all freshmen. Apply to A. A. morial at 5:30 today.

#### MILITARY SCIENCE

Call at room 1-050 for Advance Course uniforms.

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

H. W. Ford of Stone and Webster will speak on "The Weymouth Station" and a movie, "Power," will be shown next Thursday at 8 in room 5-330. All interested are invited.

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

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

#### 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.

#### FRESHMAN CREW

All members of the freshman crew are asked to attend a dinner in Walker, tomorrow at 6. Meal is \$1.00.

#### INTERCLASS SWIM

An inter-class swimming meet will be held at the Y. M. C. A. Huntington Avenue pool Thursday at 4.

#### Phi Kappa Psi

All Phi Kappa Psi's please leave their name and address at either the information office or to C. F. Tyman, room 2-174.

#### FINANCE COMMITTEE

Will the Treasurers of all undergraduate activities please send their names addresses and activities to room 393

## X-RAY INVENTION USED BY PLUMBERS

George L. Clark Tells How The  
Plumber Uses Machine  
In T. E. N.

The scientific age has brought about many changes in the life of the ordinary person but the latest invention in the X-ray has made the most radical change of all.

No longer does the plumber carry a set of tools including saws and hammers in order to locate pipes hidden in walls or under floors for the latest invention of the General Electric Company does this menial labor for him.

Detectives and custom officials will also make extensive use of this new invention says Mr. Clark. No longer will bootleggers be able to carry their liquor in a metal flask as the X-ray will immediately point out the metal to the officers. Jewelry hidden in the bottom of trunks, in clothing or even in one's shoes will immediately be detected by the new instrument. Police will no longer have to arrest unskempt looking people on suspicion of carrying revolvers as the officer will only have to call the station for the instrument and stand close to the individual and the instrument will immediately detect the metal.

The new invention that has just been perfected is a small portable X-ray apparatus called the Radiography which is able to seek out the hidden pipes. This is the information given in the article on "The Versatility of X-rays" by George L. Clark of the research laboratory of applied chemistry in the December issue of the T. E. N.

A feature of the next issue of the publication is a story on aviation by Professor Warner. It compares to the early auto, showing how the troubles of the early engineers in automobile construction are the same as those which confront engineers on airplane manufacture today.

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