

## ALL DEPARTMENTS SHOW INCREASE IN REGISTRATION

### Dramatic Appeal of Aviation Doubles Enrollment in Course XVI

### 595 IN FRESHMAN CLASS

### Building Construction Course Starts First Year With 64 Students

Student enrollment for the course in aeronautical engineering at the Institute is more than double that of last year. The increase is attributed to the dramatic appeal of the recent spectacular achievements in aviation.

Total registration in aeronautical engineering at the Institute is 163, an increase of 133 per cent over last year. The awakening of a new and wide-spread interest in aviation comes while Technology is preparing for expansion on a large scale in this new branch of engineering in which the Institute was a pioneer.

The program of expansion is already under way with construction of the Guggenheim Aeronautical Laboratory, which will be ready in the spring. The new building will provide additional class rooms, laboratories, and space for the present wind tunnels where model planes are tested.

Complete registration figures show that the entering class with a total of 595 students has increased more than 17 per cent over last year. Enrollment in biology and public health courses increased 64 per cent, and architecture had an increase of 26 per cent.

The new course in building construction, designed to give professional training in building operations, has 64 students.

Students in the department of physics increased 71 per cent, while there was a gain of 10 per cent in chemical engineering. Students carrying on graduate studies increased nearly 10 per cent over last year. Total registration for all departments is 2672 as against 2623 last year.

## WARNER TO SPEAK AT THE STATLER TONIGHT

### Head of Naval Aviation Guest Of N. E. Air Conference

Professor Edward P. Warner, Assistant Secretary of the Navy in charge of aviation, will be in Boston this evening to address the New England Aviation Conference at the Hotel Statler. This conference will take up all phases of aviation, and is being held under the auspices of the New England Council. Dignitaries are expected to be present from all the New England states.

This conference is being held coincident with the Radio-Aero show at Mechanics Building, and at a time when the public is eager to absorb everything connected with flying. Professor Warner will make his address at the evening session, it has been announced.

During the summer of 1926 Professor Warner was called to Washington by President Coolidge to assume charge of the air force of the navy. He was at the time head of the Aeronautical Engineering department, and was instrumental in making this study (Continued from Page 4)

## Will Elect Freshman Leaders This Monday

Some time on Monday several members of the Junior Class will visit each of the freshman sections for the purpose of conducting the election of section leaders. These elections have been postponed from last Wednesday, when they were originally planned to take place. Those men who are elected leaders will report at 10:27 on Monday at 5 o'clock for their first meeting. At this time the men will start the class organization for Field Day, and will also take steps to help the annual T. C. A. drive.

## All Directory Cards Must Be In At Once

Those students who have not yet turned in the directory cards which are attached to their pad of roll cards must do so at the earliest possible opportunity. Work will be started on the student directory for this year in the next few days and all those whose directory cards are not in by that time will necessarily have their names omitted from that register. To turn in these cards merely fill them out, drop them in any Institute mail box, and they will reach the right destination.

## Sophomores Make Good Showing at Meeting of Class

### Field Day Teams Will Start Their Practices At Once

Over 100 prospective candidates for the various Field Day teams responded to the call for a Sophomore mass meeting yesterday in 5-330 at 5 o'clock. In view of the fact that there was a crew mass meeting at the same time, this number was much greater than was expected.

By the enthusiasm with which the men responded to the opening cheers, they proved that they had not yet slipped into the customary blasé attitude of Sophomores. When this preliminary din had subsided, the men were led in a few songs by Orville B. Denison '11. Unfortunately since the piano which is usually in the room was missing, the men were deprived of hearing some of his characteristic humorous ditties.

"Denny" then talked to the men on Field Day, the subject of urging them to make sure that they were not beaten in that traditional struggle, and thus to avoid the humiliation of a double defeat which his class of 1911 suffered.

"The Institute wants you all to have as good a time possible on Field Day this year, but if Technology's reputation is to be upheld, there must be no mob action outside the grounds as there was last year," said "Denny" in emphasizing the necessity of having no repetition of last year's "Riot." He added that severe action would be taken against any man who was involved in starting such a movement.

Later on both he and D. Tullis Houston, the class president urged those present to help the first year men make the Freshman Rules a success by responding to their "hello's" and to report those who failed to live up to the regulations. To help in this, enforcement cards were distributed, to every one.

As coach of the Sophomore football team Joseph A. Parks '28 urged all who could do so to come out because as happened last year, the games were usually rather close, and 1930 could not afford to lose. He concluded by announcing the immediate start on Wednesday. Similar speeches by Oscar Hedlund, who will coach the relay team and Cedric Valentine, assistant crew coach, and Norman O'Shea, last year's tug-of-war captain, aroused much enthusiasm. Owing to the fact that the last sport had no coach present, it is the only one which has not started practice. A notice in THE TECH will announce the first tug-of-war practice.

## FRESHMAN VOO DOO TO APPEAR TUESDAY

### Subscriptions Will Be Placed On Sale at Stands

Every year the first issue of Voo Doo, Technology's comic monthly, is dedicated to the newest arrivals at the Institute, the freshmen. This year's freshman number will appear on the stands on Tuesday.

With the contributions of prominent artists mixed in with the literary work, Phosphorus' latest offering will appear in an attractive four-color cover by Samuel McMurtrie, Jr., '25, depicting a freshman getting into Technology. A complete review of this issue will appear in Monday's issue of THE TECH. Yearly subscriptions will also be on sale at the stands on Tuesday at the regular subscription price of \$1.75.

# ALL-TECHNOLOGY SMOKER WILL BE HELD IN WALKER MEMORIAL NEXT FRIDAY

## T. C. A. TO START ANNUAL DRIVE ON COMING TUESDAY

### Have Set \$3100 As Goal In Yearly Campaign—Will Have 25 Free Lances

### COMMITTEE IS NAMED

With \$3100 as their goal, the Technology Christian Association will start their annual drive officially on Tuesday morning. Solicitation among the fraternity houses will start Monday when designated fraternity members will go to various houses and give a short talk. As usual, red and grey buttons and receipts will be given to every donor.

About 25 free lances will canvass the student body in general and the newly elected freshman section leaders will have as their first official duty the solicitation of contributions in their various sections. In order to let students know the success of the drive there will be charts in the Main Lobby telling to what extent the various student groups have subscribed.

As announced last night, the committee in charge of the drive is John W. Chamberlain '28, chairman; Morris H. Klegerman '28, treasurer; T. Carlton Kane '28, assistant treasurer; John P. Bailey '28, dormitories; Henry B. Dean '28, fraternities; David P. Moore '28, free lances; C. Brigham Allen '29, freshmen; Harlan R. Jessup '28, speakers; M. Richard Boyer '28, publicity, and Ralph T. Jope '28 and Mr. Wallace M. Ross, ex-officio.

## EMPLOYMENT BUREAU FINDS 172 POSITIONS

### Summer Work From T. C. A. Brings Students \$23,412.22

A total of 137 students filled a total of 172 positions found by the Undergraduate Employment Bureau of the T. C. A. and earned \$23,412.22 during the period from June 1 to September 26, according to the report of Mr. Pennell N. Aborn, head of that division of the T. C. A.

The number of men placed in those four months is 44 percent of the total placed in the previous year, and their earnings are 58 percent of the total earnings of the previous year. As usual, the positions held went all the way from factory jobs to tutorial and companion positions, and included riding master in a camp, statistical work in a hospital, book selling, research work in laboratories, chauffeuring, appraising, and farming. Some students were barkers for a bus line, bell hops or porters at summer hotels, camp counsellors, workers in railroad shops, workers for the Institute, and one fellow spent his time laying out plots in a cemetery.

## Scientist Says Charleston Is More Fatiguing Than Heavy Gymnastics

### Dancing Almost as Exhaustive As Wrestling, According To Experiments

Tests made recently with specially designed apparatus in the University of Helsingfors indicate that the waltz and the shimmy call for a smaller expenditure of physical energy than do any other modern dances; that the black bottom, the schottische and the fox trot call for slightly more energy; that the polka and the Charleston are still more wearing; that the mazurka is the most exhausting of all.

The waltz and the shimmy consume slightly more energy than a fast walk consumes and considerably more than is consumed by carpenters, painters or housemaids in the course of their

## Head of Committee on All-Technology Smoker



James Donovan '28

## MEETING HELD BY GOVERNING BODY

### Appointments to All-Technol- ogy Smoker Committee Are Ratified

At the first meeting of the year of the Institute Committee, held last evening in the Faculty Dining Room in Walker Memorial, the appointments to the All-Technology Smoker Committee were approved.

In as much as none of the standing committees had reports prepared, the meeting was very short. Ralph T. Jope '28, President of the Institute Committee, gave a short talk to the men present, asking that they encourage the freshman "Hello" rule by responding to all first year men when addressed by them, and also emphasizing the need of Upper-classmen setting a good example to the new men in regard to the rules concerning smoking in the corridors.

Owing to the fact that the T. C. A. is starting its drive for funds next Tuesday, it was decided that the elections of the Freshman section leaders would be held Monday, in order that they may be organized in time to help with the drive in their sections.

A photographer took pictures of the Institute Committee and of the Executive Committee, which will appear in the next issue of the Technology Review.

## ALL NEW MEN WILL BE GIVEN A GRATIS MEAL AT 6 O'CLOCK

### May Have Vitaphone Pictures Of Institute Activities And Faculty

### PRESENT TECHNIQUE CUP

Plans for the annual All-Technology Smoker, to take place in Walker Memorial next Friday night, are nearing completion. The committee is endeavoring to obtain the Vitaphone pictures which were taken of the Institute activities and faculty members last spring.

If these pictures are obtained the complete Vitaphone apparatus will be installed in Walker Memorial and the words and sounds will be reproduced as well as the pictures. The pictures include President Samuel W. Stratton with other faculty members, Coach "Bill" Haines instructing the crews, the Glee Club and Tech Show 1927 in action, and other campus scenes.

Moving pictures of last Field Day have already been secured for the Smoker and will be shown there. There will be the usual several acts of vaudeville but as yet these have not been definitely decided upon.

Free smokes will be liberally distributed. The Technique Cup, which is given to the track man who is still attending the Institute and who garnered the greatest number of points in the past season, will be presented. The Swartz Medal, which is annually presented to the man who is adjudged as the best athletic manager for the past year, will also be presented at the Smoker.

It is never known who is to get these awards until they are presented. The Cabot Medals, which are given to the five men who show the most improvement in their physical condition between the time they enter the Institute and the termination of their freshman year, will be presented at the same time as the other awards.

Freshmen and transfers will meet in Walker Memorial at 6 o'clock, at which time they will be given a gratis dinner. Immediately following the dinner there will be three speakers to describe the various activities to the new men. One man will speak of the publications, one of athletics, and the third of Tech Show and the Musical Clubs.

At 7:30 all of the undergraduates will be admitted. Every man will be given a raffle ticket as he enters. This year the committee has been successful in securing more prizes for the raffle than ever before. The Technology cheers and songs will be led by Orville B. Dennison '11 and Steven Townsend, instructor in choral singing at the Institute.

The entire committee is as follows: Chairman, James Donovan '28; Assistants to Chairman, S. Richmond '28, Arnold A. Archibald '28, Herman R. Art '28, Harold G. Dick '28; Treasurer, Edwin F. Celette '28. Publicity Committee: George I. Chatfield '28, chairman; Raymond L. Wofford '28, Donald S. Fraser '28, Brigham Allen '28, William W. Young '28, Lewis R. Aldrich '29, Henrick M. Luykx '30, T. Bryce Spruill '30, Wallace B. Tibbets '30, and Gordon R. Williams '29. Entertainment Committee: Robert J. Joyce '28, chairman; Steven W. French '28, Louis J. O'Malley '28, Henrick M. Luykx '30. (Continued on Page 4)

## CALENDAR

Monday, Oct. 3  
8:00—Meeting of Radio Society, Room 10-200.  
Election of freshman section leaders.  
Tuesday, Oct. 4  
Annual T. C. A. drive.  
Friday, Oct. 7  
6:00—Free supper for all freshmen and transfers, Main Hall, Walker Memorial.  
7:30—All-Technology smoker, Main Hall, Walker Memorial.

A Record of Continuous News Service for 46 years



Official News Organ of the Undergraduates of M. I. T.

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ATTENTION UPPER CLASSMEN!

LAST year the Institute Committee sanctioned certain proposals for Freshman Rules. These Proposals have become the law and it is up to the upper classmen to see that the law is obeyed.

Among the regulations is one: FRESHMEN ARE EXPECTED TO SAY "HELLO" TO ALL STUDENTS THEY MEET ON THE INSTITUTE GROUNDS.

The observance of this rule is conspicuous by its absence. Of all the Freshman Rules this one is the least observed. Such is the situation. Now what are we going to do about it? The answer lies with the upper classmen; for Freshmen are not to be blamed for ignorance; but the upper classmen are culpable for the lack of interest they have shown.

You ask, "What is the remedy?" Well, it is just this. If freshmen pass you without speaking call them back and remind them of their omission. If each upper classman appoints himself a committee of one to see that the rule is enforced we will soon have a new custom well on the way to becoming a good old tradition.

Incidentally a word to the freshmen. You have showed your willingness to comply with regulations imposed upon you for the purpose of fostering Technology Spirit. You will soon have your Class organization and will be able to function as a unit. Let us have the cooperation of the section leaders and the class of '31 as a whole to see that the letter and the spirit of the Freshman Rules find a permanent place in the lives of Technology men.

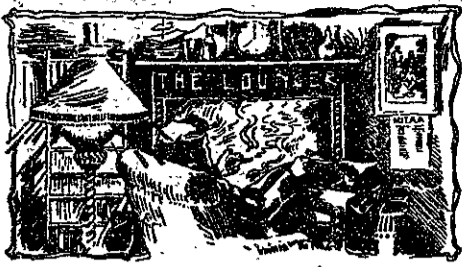
OUR HONOR SECTION IN ENGLISH

THE supposed lack of interest in Liberal Arts courses which is traditionally ascribed to Technology men is once more being contradicted. With the announcement of the new option in the Sophomore English courses we see further evidences of a serious interest in literature on the part of engineering students. The popularity of this plan among the students is clearly shown by the large number of men which hastened to make application for admission to the option.

At best the whole idea is only an experiment. But it is an experiment which has a basis—knowledge gained from a similar attempt in a smaller way last year. It will be remembered that during the second term Professor Roberts tried it out with ten picked students. These men may or may not have had ulterior motives in submitting themselves as subjects for experimentation—we cannot vouch for that—but we do know that, in the end, they were all most enthusiastic and that several expressed a desire to continue with their work this year.

We are glad that the English Department has seen fit to enlarge upon the attempt of last year. The experiment has worked to perfection in other colleges and there is no reason why it should not work as well here. The Institute undoubtedly contains many men who have their own ideas and who realize that the living of life is more than the following of a score of printed rules. We think that these men are the ones who have signified their interest in the Option and believe that they will prove, once more, that Technology men have the ability to do creative work in fields which are normally outside the limits of their engineering work.

One week from tonight, Oct. 7, is the date set for the All Technology Smoker. This is one of the few times when Technology undergraduates have the opportunity of getting together and having a good time. It is important therefore, that everyone keep October 7 free because the success of the event depends upon the number of fellows who attend. The Smoker Committee has undertaken plans to make this year's affair the biggest and best in the history of the Institute, but in order to do this it is imperative that the undergraduates give their heartiest support.



Another Tech tradition gone—and nobody knows better than the old Lounger how few there are left! But lost forever (he pauses to let a tear splash noiselessly on the rug)—lost forever are those distinctive woolen sacks our handsome rookies wore in the ages past. Gone the khaki bloomers—the original plus-fours; gone the unravelling spirals that never failed to trail behind in parade; gone the trim-waisted monkey jackets and the blinder caps. And what is left? Lo and behold, a flock of brown-clad Western Union boys without their wheels and disguised in cocky overseas head-gear.

What can Technology be coming to? A millenium maybe? (whatnall does that mean?) What will the dear old school be like with nothing for upper-classmen to snicker at, with nothing more for visitors to gaze upon with awe, with nothing to give the rookies themselves a sense of actually belonging to the Alma Mater? Simply a mob of messenger boys? Heaven preserve us!

But don't cringe with fright, Frosh, the Lounger is just a bit jealous.

That makes two first year men who have spoken to the Lounger.

When the Lounger finds the time, he's going to start in at the text-book business, selling decidedly under cost, thereby becoming a long-needed boon to Technology inmates, and at the same time taking upon the ill-fated Coop a no more than just revenge. Twelve dollars for three two-dollar books for one course—can anyone but a Coop employee feature that? The funniest part is the way the gullible Frosh bite at the chance to share in the profits of such a stupendous business enterprise and pay over a good, serviceable dollar for the privilege. But the Lounger hasn't much kick coming—he has done it himself every year since the Coop pilfered its first buck.

The Lounger surely must hand it to the business board of THE TECH for their keen eye for business. At the candidates' smoker two days ago the board did not stoop to the commonplace custom of serving refreshments as the principal inducement to get out the new men—not they! Instead of that, one of the Institute's renowned stenogs met each and every man at the door, and pinned on his lapel a rose bud; with each and every rose there went a kiss. 'Nuff said.

Play Directory

STAGE
COLONIAL: "Pardon Me."—With Clarence Nordstrom.
COPLY: "Murray Hill."—A fine comedy.
HOLLIS: "The Barker."—A big success.
PLYMOUTH: "Broadway."—New York nightlife; excellent play.
SHUBERT: "My Princess."—Fair opera.
ST. JAMES: "What is Your Husband Doing."—An amusing farce.
TREMONT: "Honeymoon Lane."—Good musical comedy.
WILBUR: "What a Man."—With Lynne Overmann.
SCREEN
METROPOLITAN: "One Woman To Another," also Paul Whiteman.
STATE: "The Road to Romance."—Ramon Navarro.

Intercollegiates

Harvard's debating team is also meeting a picked foreign delegation from the University of London, the University of Glasgow, and a college in Wales.

The Barbary Coast Orchestra will again be a part of the Dartmouth Musical Clubs, as a result of an agreement between the manager of the musical clubs and members of the Barbary Coast and the Pied Pipers. The split between the main organization and the Coast took place last year, when the orchestra thought it could make more money traveling as an independent group.

The Barbary Coast played during the summer at a fashionable resort at Saint Jean de Luz on the Bay of Biscay, Southern France, and for charity balls and private functions in and near Biarritz.

The new Coast will play at home concerts of the musical clubs and at Commencement. If the clubs go to the Harvard game the arrangement will be the same as last year, when the Barbary Coast played for the concert at the Hotel Somerset but not for the dance following. The orchestra will also accompany the clubs on the Thanksgiving and spring trips.

"High intellectual capacity" is expected of the new freshman class at Yale, according to an announcement issued by the board of admissions. Of 1760 men who applied for admission to the university, 887 were picked by the board. Twenty-four per cent of the students were admitted under plan B, which provides that candidates who have completed an approved four-year course in an accredited school with certificate grade and can successfully pass a test in English and three other subjects are eligible for admission to Yale. Forty-three States, the District of Columbia, Hawaii and Canada are represented in the class.

A fund of \$25,000, the income from which will be applied each year to post-graduate work in an American university for an electrical engineer from Italy, has been established by individuals, associations and corporations in this country who are interested in electrical development, it has been announced by the Italy America

Society. The fund has been raised to mark the one hundredth anniversary of the death of Alessandro Volta, inaugurator of a new era in electricity. The student who will come to the United States will be selected competitively by the Associazione Elettrotecnica Italiana, which corresponds to the American Institute of Electrical Engineers. In the United States the administration of the fellowship is in the hands of the Italy America Society.

Advanced classes in military science at the University of Vermont have proved so popular during the past few years that additional requirements may be necessary to keep the class within the limits set by the War Department. The university is allowed a quota of eighty men in the advanced courses and, according to Colonel Black, this number may be exceeded if the Medical Corps is included in it.

Final preparations for the fraternity rushing at Williams have been completed, and Professor Robert D. Leigh, rushing arbiter for the coming year, has explained to the freshman class the working of the rushing system. The season, which begins Saturday, will last until Oct. 8.

The outstanding change in the rushing agreement of this year is the establishment of an arbiter who does not belong to one of the fifteen fraternities on the campus. The duty of this arbiter is to deal with all cases of infringement of the agreement, and also to act as a consultant to be approached by either freshmen or fraternity members in regard to questions on rushing.

—Boston Transcript.

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# TRACK MASS MEETING TO BE HELD TODAY

## More Than 130 Candidates Report at Opening Meeting of Oarsmen

### Record Turnout Expected At Hangar Gym For Field Day and Harrier Teams

Long distance men, middle distance men, dash men, hurdlers, shot putters, all will rapidly make their way to the Hangar Gym this afternoon, where the first track mass meeting of the year will be held under the direction of Coach Oscar Hedlund. From the number of candidates that have reported already at the track house it is quite certain that a record number will be present at the meeting.

With only four weeks to the first cross country meet, when both the Varsity and freshmen tackle Holy Cross at Franklin field, the harriers will have to train strenuously in order to defeat the Crusaders. Most of the Varsity men started Monday and with such a short time available the coaches are anxious that all candidates get started this week.

Varsity prospects for this year are excellent. Last year the Cardinal and Gray harriers finished third in the New England, although not quite running up to form. With the exception of Hal Akerley, last year's leader, all of the veterans are back. Capt. Pete Kirwin, Norm McClintock, Chuck Worthen, and Newell Mitchell form a nucleus for a first class team. Besides these men Hal Dick, Red Walsh, and Dick Austin of the Varsity squad, Leon Thorsen, a transfer who broke several M. I. T. board track records last year, and Maury Herbert and Ronald Youngson of last year's yearlings should be excellent material.

It is too early yet to get much of a line on the freshmen, but a number of promising first year men have already been observed. William Hallahan, brother of Jack, the Varsity quarter-miler, George Murphy, Howland Parker, Robert Leadbetter, Seymore Northrop, Harold Wilson, Paul Sample, Alfred Ziegler, and Ed Harrington are some of the frosh who are expected to shine as harriers.

Oscar Hedlund, track and cross country coach of the Cardinal and Gray, will give his usual interesting talk about track and training in general. Billy Meanix field event coach will then discuss his particular line of sport. Pete Kirwin, cross country captain, and Cy Meagher, track captain, will also be added to the list of speakers.

It is the purpose of the meeting to get all possible candidates out for the freshman and Sophomore relay teams, as well as to gather together the late-comers for both Varsity and freshman harrier teams. There is already a fairly good crowd of varsity men practicing along Memorial drive but the yearling ranks could still stand a little reinforcement.

### TENNIS TOURNAMENT STARTS NEXT WEEK

Tennis will start off with a bang this year with the tournament scheduled to start the middle of next week. No schedule of team matches has been made as yet although arrangements have been made for a match with West Point the early part of May. Other tentative matches are with Amherst and Wesleyan.

The Varsity should have a strong team this year. Captain Kuki, Hagerdorn, and Kononoff, are old veterans who will be out this year. Last year's frosh team will contribute Maskell, Fuller, Wigglesworth and Boehner, all of whom are strong men. All interested in entering the tournament next week are requested to meet Manager Wilson in the M. I. T. A. A. office or sign on the list in the main lobby before Tuesday.

### FROSH OUTNUMBER UPPERCLASSMEN AT CREW GATHERING

Bill Haines Urges All Men To Come Out and Train Faithfully

### YEARLINGS GO ON RIVER

One of the largest groups ever present at a crew mass meeting, appeared at the opening meeting of the season on Wednesday afternoon in room 3-370. It was estimated that exclusive of the speakers, more than 130 freshmen and upperclassmen signified their intention of coming out for the Cardinal and Gray eights.

Bursar Ford opened the meeting, explaining the new additions at the boat house. These are not to be permanent, he explained, as the boat house is on land leased from the Met-

### Opens Sixth Year As M. I. T. Crew Mentor



Coach William Haines

ropolitan District Commission, and in twelve years this lease will expire. At the end of this time, it will be necessary probably to erect a new house.

Bill Haines gave a short talk on crew in general, urging all the fellows present to come out and practice faithfully. After finishing his little talk he turned the meeting over to Art Underwood and Captain Malmquist. Art declared that with all the yearling material available this should be a real freshman year along the river.

Captain Malmquist described practice at the boat house and announced that freshmen would go out in the sixteen oared training barge shortly. This promise was made good yesterday afternoon when the frosh made several trips in the barge. They were the first group to go on the river this Fall. It was also announced that practice would be held every afternoon until approximately two weeks before Field Day when morning practice would replace it.

### More Candidates Needed For Field Day Relay Teams

Opportunity For New Men On Both Sophomore and Frosh Teams

Sophomore and freshman candidates for the relay teams have been working out under the direction of Coach Oscar Hedlund during the past week and are already showing improvement in condition and running form according to "Os."

There is not a sufficient number of candidates, however, from which to pick teams that will be truly representative of their respective classes. Twelve men are needed for each team and the men who come out early will have a decided advantage over later candidates for, with Field Day only a little over a month away no time

### RALLY OPENS SOPH FOOTBALL SEASON

In an appeal for a squad of twenty or thirty men from which to pick his Field Day eleven, Coach Joe Parks opened the football season for the class of 1930 at last Wednesday's mass meeting. He stressed the spirit and determination of this year's freshmen as evidence of the battle which the Sophomores will encounter on Field Day, and also laid emphasis on the fact that a victory at football is usually the determining factor in deciding the day. His practice schedule calls for individual instruction the early part of each afternoon, with scrimmage and signal practice beginning as soon as sufficient men have reported on the field.

Prospects for the team this year are very bright, with practically every one of the lettermen back, and a wealth of husky transfers, who will not be barred from competition against either foreign teams or the freshmen. Plans have been made for acquiring uniforms at a minimum of expense for new men who have no equipment. John Byrne, captain of the eleven, requests that all Sophomores who have not gone out for the squad on account of lack of equipment get in touch with him at once at the Technology dormitories.

No definite schedule has been arranged yet, but the tentative program calls for several practice games with local high schools, as well as scheduled games with freshman squads from Boston University, Tufts and Northeastern and possible encounters with Lowell Textile and Newport Naval Training Station. There is a good deal of talk at present of continuing to play after Field Day, the season terminating in a Thanksgiving Day

can be wasted in getting into condition.

Freshmen showed good possibilities at the camp preceding the opening of the Institute last week and with practice should make it interesting for the Sophs on the track on Field Day. In the past the relay race has been one of the most bitterly fought events on the program and this year's race should be no exception, for the Sophs will probably have most of last year's team competing for places as well as a number of new men. This team made an excellent showing last year in spite of losing the event.

Prospects for a good sophomore relay team are bright. Last year they were outclassed by the second year men but since then they have improved greatly. In their ranks are several very fast dash men such as Edlund, captain of the 1930 field day team, Ladd, an excellent prospect in the quarter mile, and Rosborough.

game with the sailors at Newport. The first practice of the season was on yesterday afternoon and consisted principally in handling the ball. A heavy workout will be indulged in this afternoon at three o'clock in order to give Coach Parks an idea as to what material he has to work with. Coach Parks is a veteran of three years' experience on the 1928 team, and last year was the best ground-gainer to tote the pigskin on Tech Field. If the soph line succeeds in stopping Joe in scrimmage, the outlook for the season will be particularly encouraging, as last year he tore big holes in the line which held the 1929 backs to scant gains. Management of the team will probably be in the hands of Phil Hendricks, who managed last year's squad.

### Varsity Cross Country Schedule for 1927

- Oct. 22—Holy Cross at Franklin Park.
  - Oct. 29—New Hampshire at Franklin Park.
  - Nov. 5—Tufts at Franklin Park.
  - Nov. 14—New England Intercollegiate Championships at Franklin Park.
  - Nov. 21—National Championships at Van Cortland Park, New York.
- Freshmen meets will be held jointly with those of the Varsity.

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## NOW FOR FOOTBALL!

### BEFORE THE GAME

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### Boston Evening TRANSCRIPT

Survey of the College and School Gridiron Activities, with Intimate Stories of the Development of the Leading Elevens of the East

### AFTER THE GAME

### Read The Transcript FOOTBALL EXTRA

Saturday, October 1, the Saturday Transcript will print the first of its Football Extras. These extras, issued immediately after the finish of the big games, print stories of the principal contests which are as complete, as accurate, as interesting as any printed in the Sunday papers.

On Sale at the Boston Hotels, Subways and Stations, and the More Important News Stands in Boston and the Nearby Towns.

### ALL TECHNOLOGY SMOKER IS OCT. 7

#### Institute Activities May Be Shown By Vitaphone Pictures

(Continued from page 1)

ry K. Friedlander '28, Bernard B. Brockelman '29, Philletus H. Holt '30, David F. Bremner '29, Albert J. Pusch in '28. Refreshments Committee: Gilbert J. Ackerman '28, chairman; Walter J. Nock '28, Dwight P. Moore '28, Edward P. Dean '30, Herman S. Botzow '30. Program Committee: Richard B. Goble '28, chairman; William G. Houck, Jr., '29, Earl W. Glen '29, Fisher Hills '29. Speakers Committee: Ford W. Sammis '28 chairman; James R. Glazebrook '28, Joseph W.

### Show Charleston Is Harder Work Than Gymnastics

#### Energetic Dancing Uses Nearly As Many Calories As Wrestling

(Continued from Page 1)

For the present they may serve the purposes for comparison.

	Energy Consumed
In act of lying still.....	1 calory
In walking slowly.....	2.6 calories
In light gymnastics.....	2.9 calories
In the work of a carpenter.....	3.2 calories
In the work of a house painter.....	3.3 calories
In the work of a housemaid.....	3.31 calories
In walking rapidly.....	3.8 calories
In dancing the waltz.....	3.99 calories
In dancing the shimmy.....	4.02 calories
In the work of a laundress.....	4.21 calories
In dancing the black bottom.....	4.68 calories
In dancing the schottische.....	4.76 calories
In dancing the fox trot.....	4.78 calories
In the work of a stone mason.....	5.53 calories
In heavy gymnastics.....	6.7 calories
In the work of sawing wood by hand.....	6.8 calories
In dancing the polka.....	7.56 calories
In dancing the Charleston.....	7.65 calories
In foil-fencing.....	8.25 calories
In sabre-fencing.....	8.69 calories
In running.....	9.7 calories
In dancing the mazurka.....	10.87 calories
In wrestling.....	12.32 calories

The conclusion to be drawn from this table is that dancing is as exhausting as moderate or even heavy bodily work. It is probably more exhausting than appears from the table, for the apparatus in which the tests were conducted prevented the dances from being carried out with the vigor with which they are performed on a dancing floor.

The Dartmouth debating team has scheduled an international debate with a group of students from the Universities of Edinburgh, London, and Reading of Great Britain, the meeting to take place in Hanover on October 26.

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### Edward P. Warner Will Address Air Meeting Tonight

#### Aviation Conference Is Being Held in Boston During Aero Show

(Continued from page 1) into a separate course, now known as Course XVI.

Warner graduated from the Institute in 1917 with the degree of Master of Science. He had previously received the degree of Bachelor of Arts from Harvard University. During the World War he was employed as aeronautical engineer for the Air Service in connection with research, and also as instructor in the military course in aeronautical engineering at the Institute.

During the war he was also detailed on work as Technical Assistant for the National Advisory Committee on aeronautics in Europe. He has made repeated trips abroad to study the condition of aeronautics in Europe, especially in regard to commercial applications. From 1920 to the present time, Professor Warner has been on the faculty of the Institute. He still holds his position as head of the Aeronautical Engineering Department, in spite of his absence from active duty.

As an author on aeronautics, Professor Warner has distinguished himself by publishing over 80 reports and papers, among which are "Commercial Aviation in the Eastern Hemisphere," "Airplane Performance Formulas," and "Design of Commercial Airplanes."

### COMPETITION OPEN ON T. C. A. HANDBOOK

Technology Christian Association's "Handbook" has opened a competition for any Sophomores and freshmen who may wish work on that publication. Two of these will be elected to next year's managing board. Those interested should go to the T. C. A. office as soon as possible.

However, although candidates should report immediately, there is not much work to be done on the book until next fall. The Handbook affords those a chance to do activity work who cannot spend the amount of time required by the other undergraduate publications.

Registration at the Women's College in Brown shows the largest enrollment of freshmen, numbering 140. The other classes are: Sophomores, 104; juniors, 121; seniors, 109.

Increased capacity in the Women's College has resulted from the completion of the new Alumnae Hall which adds four new classrooms to those previously available. In addition to the new building with its thoroughly modern equipment, Pembroke Hall, the oldest building on the campus, has been completely renovated. Among these improvements are the new offices on the first floor, allowing a separate suite for Dean Morriss and her secretary and another for the registrar, as well as one for the personnel director. The old library and reading room, also have been transformed into three roomy classrooms, while the former chapel on the third floor of Pembroke Hall has been remade into the new library. Chapel services are now held in the auditorium of Alumnae Hall.

—Boston Transcript.

### INSTRUCTORS VIEW PRINTING DISPLAY

#### Exposition in New York Shows Industry Has Grown Enormously

An industry of national importance has just completed the fourth exposition of its products in Grand Central Palace, New York City. The Educational Graphic Arts Exhibition which occupied three floors of the huge New York building, portrayed all the varied aspects of the printing industry of modern times. Professor Arthur C. Hardy and Mr. Frederick W. Cunningham of the Department of Physics, inventors of the colorimeter for the accurate determination of color, represented the Institute at the exposition in an unofficial capacity. They have just returned after a brief vacation in New York.

Probably the most important in the country if not in the world, the printing industry ranks high in the list of money spent for its products. Statistics show that in New York City alone more than a half billion dollars is expended annually for printing. The exposition at the Grand Central Palace not only gave an idea of how great the progress has been in the industry in the past quarter century but also indicated how much the field has expanded in the last few years. The next exhibition of the printing art and allied trades will be held in 1932.

Among the novelties on display at the exposition was a machine for engraving the punch used in making the mold in which type is cast. This machine is so delicate that the whole of the Lord's prayer may be cast on the face of one piece of four point type. The type used in THE TECH is eight point. With the four point type shown at the exposition, the Lord's prayer can be printed four times on the area occupied by a capital M in THE TECH. It is, of course, impossible to print on ordinary paper from type as small as this, but a photomicrograph made in the Physics department laboratory showed that the type was accurately cast.

It is expected that plans now on foot at the Institute may ultimately result in giving the same assistance to this industry as has been given to others through the many resources and facilities of Technology laboratories. Courses leading to a comprehensive understanding of the subject of printing are already being offered by the Institute. They include courses in art, photography and color.

### CALLS SUN GOOD FOR 150 BILLION YEARS

The French scientist Charles Nordmann estimates that the sun will continue to give the world its heat and light for 150,000,000,000 years. The calculation was made possible by the discovery of the construction of the atom.

This eliminates the old theory that the sun would burn out in 10,000,000 years at the most and reconciles geologists and astronomers, Professor Nordmann says.

### Notices and Announcements

**OFFICIAL NOTICE**  
GS-48. Appreciation of Music will not be given in the first term this year. It will be offered in the second term.

**UNDERGRADUATE**  
Coaches for Boys' Teams  
Two men are wanted to coach Boys' teams, one to coach boxing and one to coach basketball, each requiring about two hours per week. Apply at T. C. A.

**PHYSICAL EXAMINATIONS**  
Students are requested to sign up for physical examination as soon as possible.

**TENNIS MANAGER COMPETITION**  
Freshman and Sophomore candidates who desire to enter competition for the position of Tennis Manager should report to the A. A. office any afternoon after 4 o'clock.

**A CHANCE FOR JUNIORS**  
Technique offers a two-weeks' competition for Juniors, starting Monday, for the positions of "Features Editor" and "Photographic Manager." Both are important positions and lead to a Senior Board position next year. All men interested report at the office, 308 Walker.

### Radio Physicians Will Employ Code For Ocean Cases

#### Have Developed International Code to Help Doctorless Ships at Sea

An international medical code to aid doctorless ships at sea in the diagnosis and treatment of diseases by wireless is taking definite form through the efforts of the American Code Company, publishers of telegraphic and cable codes, it was announced by F. A. Hall, a representative of the company.

Mr. Hall said that his company had been working on the idea in conjunction with well-known New York medical men and steamship companies for the past six months. The plan, he said, has been approved in principle by all who have discussed it, and the company hopes to get the co-operation of the medical associations in working out the code system. The outline of a practical book to be used in the treatment of diseases in accordance with instructions received by code has been prepared and is meeting with unqualified approval, Mr. Hall said.

Although no definite code has heretofore been used, the practice of passing medical advice from one ship to another and from hospitals on shore has been reported frequently. Radio medical service was first established by the Seamen's Church Institute. Private and Government radio and telegraph stations have transmitted such messages to any ship without charge.

### COLLEGE DRINKING SHOWS BAD MANNERS

#### Chicago Students See No Menace Of School Debauchery

Sixteen members of the senior and junior classes at the University of Chicago conferred with President Max Mason recently on the menace of student drinking and ended by assuring him there wasn't any menace.

"It was agreed that the University of Chicago is less troubled by drinking than any similar institution in the country," said President Mason. "There is no emergency. It is simply a question of manners and I am assured that the campus leaders will strive to create a strong sentiment against any drinking. This group is earnestly in favor of such a program."

The affair of two students, who are said to have drunk beer in a dormitory room and hurled the bottles onto the campus, was considered by the president during the day, but no decision was announced. "An isolated case," was the way the university head described this incident.

### T. C. A. HAS 500 BOOKS STILL IN EXCHANGE

In the past week the Book Exchange of the Technology Christian Association has sold \$899.00 worth of used books to the students. There are still around 500 books on the shelves and others coming in daily.

As in former years 1000 leather backed and 500 paper backed handbooks were printed. A total of 732 of these were sent to the men admitted to the Institute as a result of the examinations in June, and in September, and transferring from other colleges. The remainder were distributed from the desk in the Main Lobby on Monday.

All of the 2000 blotters printed this year were passed out during the first two days of school.

### Sports Desk

Within the next week Coach Oscar Hedlund will have his squad of cross country men out on the road. Last season the team was quite successful, but lost however a few heart-breaking meets such as the one with Harvard and the New England Inter-collegiate. Oscar is not making any rash promises, but it is quite certain that a real harrier outfit will wear the Cardinal and Gray this year.

Motion pictures will be taken of all football games to be played this fall by the Boston College eleven, it was announced today. Permission has been received from Coach Leo Daley, who has no fears of opponents diagnosing his plays as the pictures will not be shown outside the college, at least not until the end of the season. Then under special arrangement with the B. C. officials, movies will be shown at many gatherings of the students and alumni.

—Boston Transcript.


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**FRESHMAN FOOTBALL**  
Candidates for the freshman football team must report to Tech Field this afternoon at 5 o'clock for the first practice of the season.

**FOOTBALL EQUIPMENT**  
All members of last year's Sophomore and Junior football teams who are willing to sell or lend their football equipment are requested to call John Byrne at University 7077.

**GLEE CLUB**  
Glee Club try-outs will be held on Monday evening, October 3, in Room 10-275 between the hours of 5 and 8 o'clock. There are openings for men in all parts.

There are numerous openings in the management of the Musical Clubs for Sophomores and Juniors. All those interested can obtain further information by inquiring at Room 310, Walker Memorial, any afternoon at 5 o'clock.

**TECHNIQUE CUTS**  
Anyone desiring to obtain their cut used in Technique, please call at the office before Wednesday, Oct. 5.

**RADIO SOCIETY**  
There will be a reorganization meeting of the Radio Society in Room 10-200 on October 3, at 4 o'clock. New officers will be elected. Everybody, whether a member of the society or not, is invited.

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