

NATATORS TO ENTER MEET AT PRINCETON

Institute Sends Untersee, Wales, Bolan and Walker to Compete in Intercollegiate—Freshman Relay Team Also Entered

PROSPECTS BRIGHT

It is the intention of Manager Sheeline '19 of the swimming team to send some of the men to the Intercollegiate Swimming Association meet at Princeton, New Jersey, on March 23. Although the team sent men to the meet last year, this will be the first time a freshman contingent will go from the Institute. The older men will compete in the individual races, while the freshmen relay group will represent Technology.

The personnel of the varsity contestants will consist of Captain M. Untersee '19 in the fifty and hundred yard dashes; R. S. Bolan '19 in the hundred and two hundred yard events; A. E. Wales '19 in the plunge, and A. C. Walker '19 in the diving contest.

These men all have good records. Untersee who took part in the relay, the hundred-yard and fifty-yard dashes this season was beaten only once, and then by Cowles of Amherst in the fifty-yard swim. Twice he wrested victory from defeat in the relay, one of them a remarkable performance. Bolan has just taken up the hundred-yard dash, but has developed a speed nearly equal to that of Untersee. The first part of the present season he took all the second places and later all the firsts in his events. Wales has only been beaten twice this year. It is expected that these three men will place. Walker has placed consistently in the line and has always chosen the difficult options.

The freshman relay team includes C. D. Green, who was captain of the freshman team at Leland Stanford, J. E. Shaw who was prominent in the swimming work of the Chicago Athletic Association, O. H. Trowbridge and W. H. Young. Three of the men were on the relay team that beat Amherst and tied Wesleyan.

One of the interesting events of the past week was the gift of the 1917-18 swimmers to the team of a fine split-second stop watch which is to be handed down from year to year as a part of the swimming equipment.

CHEMICAL SOCIETY TRIP

About twenty members of the Chemical Society took a trip to the Walker-Pratt Stove Company's plant at Watertown last Friday afternoon. They were conducted through the most important parts of the factory, among various things were shown the pouring of metal into the castings, two melting furnaces in operation, the machines for cleaning and polishing the metal, and the electrolytic room where the pieces are plated. The making of moulds in sand was also explained to the members of the Society.

A Memorial to The "Ace of Aces"

Captain Georges Guynemer, known to his comrades as the "ace of aces," was recognized as the greatest of all fighters of the air. Before his death, which occurred on September 11, 1917, he had brought down over one hundred "Boche" planes.

The town of Compiègne, France, which claims Guynemer as one of its sons, has started a fund for the erection of a monument to perpetuate the fame of this immortal hero of aviation in which it hopes to interest the whole world.

An article concerning Captain Guynemer and the fund being raised to commemorate his bravery will appear in the next issue of The Tech. Do not fail to read it.

Letter of Appreciation of Money Collected for Technology Bureau in Paris has been received

The following letter has been received from Mr. Van Rensselaer Lansingh '98, expressing his appreciation of the gift of money in behalf of the Technology men "over there." The sum of money, amounting to 886 francs (\$177.50), was collected on Tech Night at the Wilbur Theater, on the evening of Field Day. An extra charge of 25 cents was placed on all of the tickets and this money was sent over to the Technology Bureau of the American University Union in Paris.

Paris, France, January 23, 1918.

Institute Committee,
Massachusetts Institute of Technology,
Cambridge, Massachusetts.

My dear Mr. Dinkins:—I was quite swept off my feet on receiving today your letter of January 8th, enclosing a draft for Frs. 886. It is not really the money, although I can assure you we can do lots of good with it, but the spirit which prompted the men of Tech to do this which has touched the hearts of all of us over here who have heard of it.

We are planning to hold a Tech dinner on Saturday, February 2nd, at which Dr. Herbert Adams Gibbons will speak on the attitude of France toward America, and I am going to take this opportunity to read your letter. It will show not only to Tech men themselves, but also to other college men here, how really great is the spirit which animates the Institute and those connected with it.

This will make those of us who are connected with the Paris Bureau more eager than ever to serve the men of Tech who come abroad in the service of our country, and you may be sure that the spirit you Tech men have shown is heartily appreciated by those of us who are privileged to be abroad.

Very sincerely yours,

(Signed) VAN RENSSELAER LANSINGH.

LETTER FROM FRANCE

Major Riley '98 Writes from Across the Atlantic

The two following letters have been received from Major Riley '98, who is now serving on the other side of the Atlantic. Major Riley before entering the service was associate professor of heat engineering in the Mechanical Engineering department. He had charge of the gas engine laboratory, and was very interested in work on gas engines, being engaged in such work at the outbreak of the war. He was one of five men of international fame called in by the General Electric Company to design their new gas engines and he also did much designing on different engines in the laboratories of the Institute, particularly the hydraulic laboratory.

"The last letter I had from west of the Atlantic was dated December 26, so we are not posted on recent doings in the U. S. A. The French papers are filled with essays instead of news and the American and English papers are so completely censored that I don't really know whether Boston is still on the map. Am very busy with nothing but engines, gears, and cranks and wheels from morning till night. It is easily the most interesting work that I ever did.

Give my best wishes to Professor Miller and all my friends. Tell them I don't envy them having to turn out two classes a year and I am glad I do not have to give the lectures in heat engineering. I left Professor Riley in Boston. When I did I fully expected to meet him again next October, but at present it does not look very much as if my expectations would be realized, so Tech will have to worry along without me.

(Continued on page 4.)

TECH SHOW NOTICE

On Monday, March 18, at 1 o'clock, the management of the Tech Show is to appear at Notman's Studio, 3 Park street, to have its picture taken. The following men and no others are requested to be present: Hutchings, Washburn, Beckett, Dennison, Mayer, Ryer, Baker, Lee, Whitehead, Bugbee, Steffian, Smith, Pratt, Spitz, Philbrick, Harrington and Collins. It is essential that none of the above be absent and it will greatly quicken the work if everyone shows up promptly. The photographs are to be taken in civilian clothes, not in uniforms. Two freshman assistants of the stage department are to be present for the picture also, but in as much as the final cut in this department has not yet been made it is impossible to give their names. The freshman candidates should find out from Er. Ryer, '20, which of them are to appear.

(Continued on page 4.)

TRACK MEETING TO BE HELD MONDAY AT FIVE

There will be a meeting in room 10-250, on Monday, March 18, at 5:00 o'clock, of all men now taking track work and all others who are interested in the sport. The purpose of the meeting is to outline the spring meets and to discuss the plans that have been made for the work of the term. Of especial importance is the announcement of the dual meet that is scheduled with Cornell and which will be held at Ithaca. Final arrangements for this meet have not yet been completed, but Manager Talcott hopes to complete them in time to make a full report at the meeting on Monday afternoon. Coach Kanaly is confident of the success of the track team this season and is anxious to have as many men as possible attend the gathering on Monday.

INSTITUTE FILES PETITION TO HAVE PROPERTY REASSESSED

A petition has been filed in the Superior Court by the Institute for a jury to determine the value of the property at 41 to 45 Arch Street, Boston, which was owned by the Institute. The Arch Street site was recently taken by the City of Boston by the right of eminent domain in order to erect a police station, but as the award made by the city was not satisfactory to the representatives of the Institute the petition was filed to have the Superior Court correctly assess the property. No definite action has been taken in the case.

10,000 SKILLED MEN NEEDED BY THE AVIATION SECTION

The Signal Corps has authorized the following statement:

Ten thousand machinists, mechanics, chauffeurs, and other skilled workers are needed at once by the Aviation Section, Signal Corps.

The present call for 10,000 men is to fill an immediate need and may be regarded as the precursor of others as the service is being built up. Even at that the actual strength of the service today is over one hundred times what it was on April 1 last year.

The dependence of the Air Service on the most highly skilled men is being brought out more emphatically with every week of development. Where in the first rush there was little experience to indicate this fact, it has since developed that practically 98 men out of every 100 in the service must be skilled in some branch of work.

Airplane work has been wholly new and unfamiliar to American mechanics, who have been taken from other trades and converted hastily into workers on the most delicate kinds of jobs. It has been necessary for both officers and men to learn very large by experience. At the same time a degree of care and

(Continued on page 4.)

BODY AND BRAINS TO WIN CONFLICT SAYS ARCHBISHOP OF YORK

Most Rev. Cosmo Gordon Lang at Convocation Declares That Responsibility of War Rests Upon College Men

WELL PLEASSED WITH TECHNOLOGY

The Right Honorable and Most Reverend Cosmo Gordon Lang, D. D., Archbishop of York, Primate of England, and Metropolitan was the distinguished speaker at the convocation of the students and faculty in Smith Hall last Tuesday afternoon. He delivered a most vivid war message, dwelling more particularly upon the deeper issues of the war as well as the effect of the war upon the universities of England.

MANDOLIN CLUB NOTICE

There will be an important rehearsal of the Mandolin Club Monday afternoon at 4:45 o'clock in the "Caf."

WRESTLING MEET

Sophomore Team Trims Freshman 21-13 in Exciting Meet

Last Wednesday evening in the Caf, the 1920 wrestling team defeated the freshman team in a closely contested match. The sophomores took the lead at the start when Badger won from his man by a fall. The sophomores held their lead and increased it to 17. When the last bout was called the score stood 17-13 in their favor. There the freshmen had their chance to win the match by a fall, or tie by a decision. Krantz '20 blasted their hopes, however, by scoring a clean fall on Costa, thus apparently making the margin so large.

A fall counted 5 points, a decision 4. The bouts lasted 8 minutes. The summary of the meet follows: 135 pound class, Badger '20 won from Gordon by a fall in 4 minutes, 25 seconds.

145 pound class, Smith '20 won the decision from W. K. Ramsay, 8 minutes.

128 pound class, Arigoni '21 won the decision from Lucas, 8 minutes.

139 pound class, Rowell '21 won the decision from Lariviere, 8 minutes.

158 pound class, Abbot '20 won the decision from Dateo, 8 minutes.

119 pound class, Johnson '21 won the decision from Rowe, 8 minutes.

140 pound class, Barker '21 won from Crowley by a fall, 6 minutes.

165 pound class, Krantz '20 won from Costa by a fall, 5 minutes.

TECHNIQUE ELECTORAL COMMITTEE UNDERGOES CHANGE

The electoral committee for Technique 1920 has been definitely chosen and will commence the work of electing the officers of next year's board within a short time. Meetings will be held several times a week, when decisions will be made in reference to the choosing of officers and the changes or alterations which will be made in the book of the next year. Each year this committee chooses all the officers of the staff except those of the business and art departments which are filled by competition.

The list of members of the electoral committee follows:—E. Ryer, Chairman; J. Kellar, Vice-chairman; Florence Folger, Secretary and Treasurer; N. Abbott, K. Akers, J. Barroughs, G. Burt, B. Casey, W. Cofren, N. Dana, C. Eaton, G. Gokey, H. Krantz, A. Kruse, W. McMahon, G. McNear, W. Merryweather, O. Mills, R. Mosserop, J. Nish, R. Pender, O. Sias, C. Talcott, I. Wilson, L. Wilson, W. Winant. A few changes may be made later because of resignations.

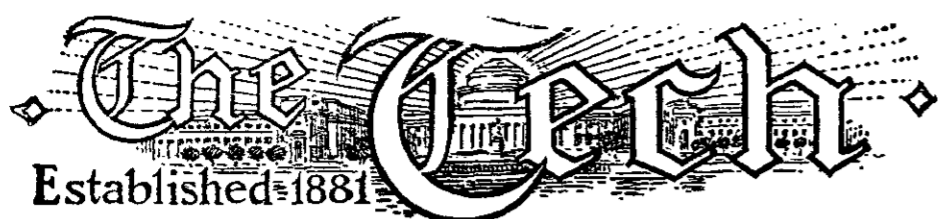
President Maclaurin, in introducing the Archbishop, declared that no one was better able and prepared to present the facts concerning the emergence of the new England out of the old England than the visitor. Before beginning his speech the Archbishop apologized to the audience for keeping them waiting, as he had already during the previous part of the day delivered four speeches, coming directly to the Institute from a patriotic mass meeting of the citizens of Boston in Faneuil Hall. He declared that the primary cause bringing him to the Institute was his great desire to see the famous technological institution, of which he had heard so much. The speaker also admitted that Technology had fully lived up to its reputation, in his opinion, for he was overwhelmed to see an institution of this kind with such a great scope of work and a correspondingly large number of students. The speaker said in part: "I wish first to say something about your share in this great struggle. Yours is the great share in responsibility. The universities of England have indeed been hard hit by the war. They have ceased to be. Out of 3200 undergraduates at Oxford prior to the beginning of this titanic struggle there are now only 363. The majority of these are even now training for commissions. 2100 have been killed upon the field of battle. From Cambridge 15,000 men have answered the call of their country; of these 2000 have been killed. Over 4000 students, the flower of England's youth, from these two great universities alone, have been killed on the field of honor. And so it has fared with all of England's other educational institutions. The students are working in shipyards, in the factories or fighting in the air, on the land and on the sea.

"The war must be fought with brains as well as with the body. Even now they are conducting scientific researches and investigations upon the battlefields. Many must be denied the privilege of serving with their bodies on the battlefield and must remain at home to serve their country with their brain. One is as equally important as the other. In either case resolute determination will possess all, whether serving in the factories and the mills, or fighting in the front line and trenches. However, there is something more than body and blood required to beat the Germans. We must bring them out of the obsessions

(Continued on page 3)

CALENDAR

- Saturday, March 16, 1918.
- 2.00 P. M. Tech Show Chorus Rehearsal in the Caf.
- 2.00 P. M. Tech Show Cast Rehearsal in the Caf.
- Sunday, March 17, 1918.
- 10.00 A. M. M. I. T. Orchestra Rehearsal in the Caf.
- Monday, March 18, 1918.
- 1.00 P. M. Tech Show Management Picture at Notman's Studio, 3 Park Street.
- 5.00 P. M. Track Meeting in room 10-250.
- Tuesday, March 19, 1918.
- 8.00 P. M. Tech Show Management Meeting in Show office.



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MANAGING BOARD

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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

IN CHARGE THIS ISSUE

K. Roman '20.....Night Editor
G. Russell Steininger '21.....Assistant Night Editor

SATURDAY, MARCH 16, 1918

JUNIOR GRADUATION

SINCE the Institute has decided to speed up its courses, it has come to realize how difficult such an undertaking is. This, coupled with the decision of the Government to exempt students in the Enlisted Engineer Corps, has lead them to postpone the graduation of the Junior Class, first until fall and now until mid-winter.

The Government is urging all colleges to keep as near normal as possible, and has intimated that it desires technical schools to present their entire courses in order that engineers may be fitted thoroughly for work after graduation.

Philander P. Claxton, United States commissioner of education, voiced the desire of the Government in the following words:

"The sentiment of the administration, approved by the council of national defence, is that attendance and educational standards be kept normal. The colleges and universities abroad are empty. Our institutions are the only ones in the world filled to anything like normal."

"No student should leave college except to fill a position that cannot be taken by another or unless definitely called by his country. I personally think the war will be long and not brought to an end until 1920 or 1921. It is a war of invention; of the engineering expert behind war against the airplane submarine. It may be that one trained man behind will be worth a thousand to ten thousand at the front. The Allies look to us for trained men."

If any members of the Junior Class feel that delaying their graduation is interfering with their opportunity for National service, they should remember the words of Mr. Claxton.

RED TRIANGLE PLEDGES

THERE are 160 students who have not yet paid their pledges to the Army Y. M. C. A. That Technology is behind is nationally known. Statistics recently published in "The North American Student" give a complete list of the amounts pledged and paid by all the educational institutions in the country and Technology is placed far down on this list. Your pledge may be paid at the Bursar's office, during hours. It is quite likely that a list comprising the names of all the delinquents will be posted on the bulletin boards about the Institute.

MONEY OR SERVICE?

The address to the faculty and students of Technology, the Archdeacon of York expressed his opinion that the war is opening a new chapter in the standards by which men will judge their success. Hitherto, he stated, making money was the goal toward which a man strove; henceforth, men will judge themselves by their relations to their fellow men and to their God.

Daily we see evidence of such a change as our visitor announced. Every day, we hear of men giving up high salaried positions in order to take up new duties without as much compensation and in which they can be of more service.

Of course, sacrifice has always been the watchword of war time, but this sacrifice has applied largely to individuals. Now we can apply it to nations.

Nearly all previous wars have been fought with the idea of gain dominant in the minds of both belligerents, but now the Allies fight for the cause of democracy, the cause of righteousness.

It is up to every one of us to accept and further this new era of service.

When the Coop opens its new barber shop, our long haired creatures will not have lack of time as an excuse for not getting a hair cut.



The Question Box has been inaugurated for SERVICE. So many questions have arisen, and so many doubts have been expressed among both the student body and the Alumni about the relations of Technology and Technologists to the war, that the WAR TIME TECH has deemed it advisable to establish a medium for clearing up these difficulties. It is strongly desired that neither the Alumni nor the undergraduates will hesitate to send in any questions that concern them directly or any that they think will be of benefit to Technology in common.

Address all inquiries to The Question Box Editor, The Tech. The name of the questioner will be withheld from publication, but each letter must be signed.

The Question Box is for YOU personally. Be sure you use it!

Question Box Editor,
The Tech, Cambridge, Mass.

Dear Sir: I have been led to believe that either the Emergency Fleet Corporation or the U. S. Shipping Board is conducting a course to train men to be foremen in the ship-building yards. Is this correct, and if so where does one apply for enrollment?

I should also like to know how long the course lasts, and whether a man is paid while taking it.

Thanking you in advance, I am,
Very truly yours,

B. V. R.

The United States Emergency Fleet Corporation conducts a school to train men to be foremen in the shipbuilding yard at Hog Island, Penna.

This school is open to men who have attended engineering or technical schools. The course is intensive and lasts for six weeks, and a man is paid 30 cents per hour while taking the course. After this he will be put to work on actual ship construction with an increase in pay. The men will be watched and every opportunity for their advancement offered, and as their value becomes apparent, positions as leaders, assistant foremen, foremen, and ultimately superintendents and other executive positions of responsibility will be possible of attainment.

Application should be sent as soon as possible to Mr. Frank S. Tower, Employment Manager, American International Shipbuilding Corporation, 140 No. Broad St., Philadelphia, Penna.

CORRECTION.

In the last question box it was stated that there were no training camps for ordnance officers, and Major Cole has no official notice of any. There are ordnance courses being given in many of the colleges, however. The courses are of six weeks duration, and include the study of methods of ordnance, property accounting, military correspondence, military law, and infantry drill. Authorization to take one of these courses should be obtained from the chief of ordnance. Enlistments must be made in the grade of private, and no higher grade is promised by the ordnance department, but almost invariably men completing these courses have been made non-commissioned officers. Further information in regard to these courses was printed in THE TECH of March 6, 1918, page 3, column 4.

CHANGES MADE IN STAFFS OF GOVERNMENT SCHOOLS

The Executive Committee of the Institute announces the appointment of twenty-four men to be instructors in the School of Military Aeronautics and in the Naval Aviation Detachment. Some of them are at the present time members of the instructing staff of the Institute itself. In the military school Professor E. F. Langley has been named instructor in conversational French; A. F. Holmes, instructor in Advanced Mechanics; Professor W. S. Franklin, instructor in preparatory work; R. H. Smith, instructor in machine shop; J. F. O'Neill, instructor in wood shop; and S. E. Brown, C. D. Buck, E. A. Burns, J. T. Cronin, H. G. Davies, A. B. English, R. Fales, H. L. Foster, T. Harris, C. E. Littlefield, W. Lofmark, J. G. MacCormack, F. Olson, F. H. Souther and W. J. Wauters, instructors or assistant instructors in the many special features entering into the knowledge of the manufacture and control of airplanes. In the Naval Aviation Detachment, C. E. Carlson '20, C. W. Kingsley, Hugh McConnell and H. M. Noelke '20 have been appointed in like manner, instructors in various lines of work.

G. W. Murray and H. E. Collins '18 have resigned. Collins retains his position at Technology as Cadet Colonel in the Freshman Regiment and is in charge of the drill at Boston University. He was captain of one of the companies of the cadet regiment last year and was an officer in the junior camp during the summer.

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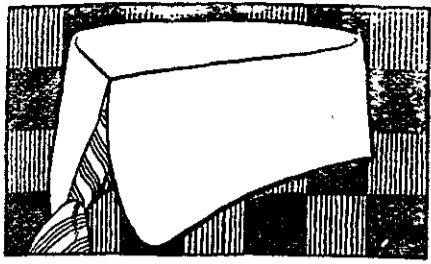
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AMERICAN RAGTIME AS FAMILIAR OVER THERE AS HERE, SAYS "PEN" BROOKS '17

Former Institute Man Writes of Experiences on Trip to Old Front—Declares Germans Will Stop at Nothing at All

E. P. Brooks '17, who is now in France with the 101st engineers, writes an exceedingly interesting letter of his experience upon immediate arrival "ove there." He faithfully records his personal observations on the destructions of the Hun and the extreme joviality of the Allied troops. A second letter from "Pen" Brooks, describing his trip to the new front, will be printed in another issue of The Tech. His first letter follows:

"I was billeted in a house near the place of rendezvous and had to get up by the light of a little green lamp. By six thirty we had eaten our French breakfast of chocolate and bread and butter (most of us shocked them by ordering eggs), and at seven were on our way in several big lorries, the British call them; or camions, as they are called by the French. I carried my camera, for the French regulations are not as strict as our own or the British, and had planned to take a picture of the first piece of demolition that I saw in France.

"The first thing I came across was a stone arch bridge destroyed by English Engineers in a retreat early in the war. I could not take a picture for it was just dusk. Soon we were travelling along at a good rate, and it was not far before we saw our first real wire entanglements 15-20 meters wide, then our trenches, and then passed village after village which was literally leveled. of course, the houses are all of stone so when shells landed they crumbled and fell into heaps.

Boche Make Use of Ancient Fortifications.

"In one very old town the Germans had utilized the wall of the town which was built centuries and centuries ago. While I am writing of this it recalls the use of another very old fortification. When the Gauls under Julius Caesar were here they built large mounds in the Flat Countries for the purpose of signalling and observations. The Boche had made an artillery observatory lot of one of these.

"Churches are the object of the artillery of both armies. We visited many beautiful Gothic structures dating back to the thirteenth and fourteenth centuries but all nothing but skeletons now.

Germans Stop At Nothing.

"There is absolutely nothing which restrains the Germans. I do not believe they will stop at anything whatsoever. I mean all that those words can mean. In their retreat they could not cut down all the trees, but what they could not, especially fruit trees, they cut a circle around the trunk so that the tree must die.

"Noon of the second day we ate our lunch in a Red Cross shack, located at the base of one of the French regiments. We had seen the depredeations

all day, were within sound of guns on the front; the enemy had left the exact location really only a short time ago; it was raining and the November melancholy was upon me.

Women do Heroic Work.

"Three women were there, angels they must have been to those men. There they were, with more courage than it takes for men to go, serving these rough soliders with their tender ministrations, suffering hardships, the want of all comforts—how I honored those women! One was middle age and spoke English very well, the other two were young. One of them had a husband who had been a prisoner for three years, the other has a husband now on the front. They served us hot tea and cigars and how good it was. The day before they had 950 Poilus lined up for a cup of hot chocolate.

"I passed the hat before leaving against their will, but a tidy little sum was dropped. It is such things, seeing women as well as men, make such sacrifice for our cause, that makes it seem that humanity is not wholly gone from the face of the earth.

Spirit of Comradeship in Arms.

"Throughout the armies, there is a spirit of comradeship, joviality which I fear there is not at home. After dinner we often sing songs, and many times we have been surprised, I have no doubt, they also, that we know all the other's songs. American ragtime is as well known among the French and English as it is at home. One day, I remember, one of the French captains asked one of the boys to teach him "I want to be way down in Dixie," and it was funny to hear him sing it. This same officer picked up one of our popular one-steps in Cairo, Egypt, before the war.

Entertained By British Officers.

"We were given a fine dinner and entertainment the other night by some British officers. In the first place, a real Anglo-Saxon meal, and afterwards a musical. You have no idea of the joviality of the affair. English majors fooling around like school boys and a hearty welcome for us Americans. It means so much to the Allies to have us with them.

"We leave here the early part of next week going to our permanent location, remaining there a few days, and then to the real front for three days."

ARCHBISHOP LANG SPEAKS

(Continued from page 1.)

which have long obsessed them." The speaker then declared that it is our duty to mankind to make the world a decent place to live in after the war is concluded and the victory won. The present duty is to put every ounce of our power and brain into the struggle. There is plenty of time to consider other things when the eyes of Germany have been opened and the falseness of her conceptions made plain, but the essential thing now is to fight."

From here the speaker digressed to the deeper issues of the war. In the first place he stated the motto of life, which has long been "Success," must be changed to "Service." All that one has to do with his body or brain is to put it into service. After the conclusion of the war he must remember the lesson that has been taught to us. Man must not think "how much money can I make," or "what success will it be possible for me to attain in the course of my lifetime." He needs rather think of how he can be of service to his brother men through his profession.

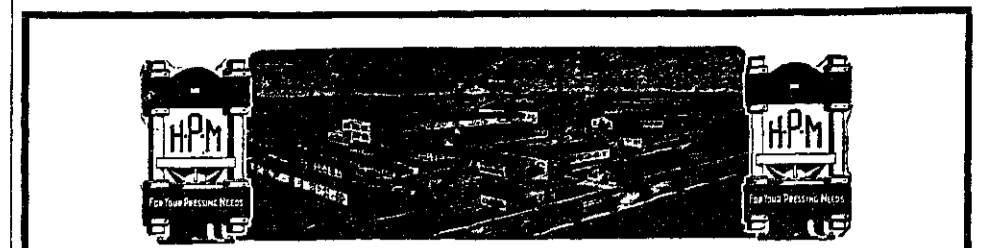
Addressing himself more particularly to the younger students, the Archbishop declared that they were at the most critical stage of their career. since the whole issues of life had been simplified very much. They are now placed before one in the most direct and simplest manner. There is one great simple issue, where there is ordinarily a web of political considerations. The meaning of America's entering the war is the simplifying of the issue. It was difficult for those outside of Europe to see what is at stake, but many treacherous acts have caused men to realize that there is a power in the world which threatens the progress of humanity. The path of

life and duty have now been made plain and is pointed out before men. The speaker then put before the audience the hypothetical question which they should consider, "What am I in relation to my fellow men?" After offering a few words of advice to the audience in answering this momentous question, he declared that men and women will know what they are going to stand for after the war is over. This is of such a nature that it will not only carry the country through the war successfully, but will also lift the nation to a high O'Neill, instructor in wood shop; and position afterwards.

In conclusion the Archbishop paid tribute to the memory of the American Revolutionary and Civil War heroes, and particularly to the memory of Abraham Lincoln who in the opinion of the speaker proved to be a far-sighted and able leader when the integrity and safety of the Union was threatened. "The great men who formed your nation have all been men of simplicity and faith, and the greatest of all, Abraham Lincoln, was the simplest of them."

After the address, the entire student body, led by R. W. Van Kirk '18 gave a regular M. I. T. with a Technology and three Yorks on the end of it for the Archbishop, an affair which the Archbishop declared never had been equalled in volume by any yell he had ever heard during his connections with Oxford and Cambridge.

The Archbishop of York, the eighty-ninth in succession since the archbishopal see of York, was created about the year 604, holds a position in the Church of England second only to that of the Archbishop of Canterbury, and is also a member of the house of Lords. Archbishop Lang received his education at the universities of Glasgow and Oxford. He has held many important positions during his connections with the Angli-



ANNOUNCEMENT

A series of short practical talks on the application of hydraulic pressure will occupy this space in THE TECH once each week for fifteen weeks. Essential parts of hydraulic equipment will be illustrated and briefly described and representative hydraulic presses shown so that the complete series will give the reader a fairly comprehensive idea of the present development and extensive application of this important branch of hydraulics.

The subject will be handled from the standpoint of the machine shop and factory rather than that of the class-room.

Next week the basic principles of hydraulic pressure will be briefly summarized. Read the complete series. You will find it well worth while.

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can Church, with which he became affiliated while a student at Oxford.

After leaving Boston the Archbishop will deliver addresses at Yale University, Chicago, Cleveland, St. Louis, Cincinnati, Philadelphia, Baltimore and Pittsburgh. He will spend Easter Day in Washington and from there will go to Canada, returning to New York in time to be the guest of the House of Bishops of the American Episcopal Church at its meeting on the 10th of April.

PRIZES TO BE GIVEN FOR
ARTICLES ON ANTI-SUFFRAGE

The following are the rules governing a contest for anti-suffrage articles which is to be held by the Anti-Suffrage League of Massachusetts:

"The Advisory Board of the College Anti-Suffrage League of Massachusetts Women offers to the League members three prizes (first \$25, second \$15, third \$10) for articles on anti-suffrage to appear in a special college issue of The Remonstrance.

"The following list of subjects is offered, but is not arbitrary. Any other subject may be chosen. The board specially recommends that each write from the view-point of her own profession or occupation. Subjects: 'Does the Patriotic Service of Women Furnish a Suffrage Argument?'; 'Show That Prohibition Does Not Depend Upon Woman Suffrage'; 'Show That the Federal Amendment to Enfranchise Women Nationally Is in Direct Opposition to Democratic Principles or Majority Rule'; 'Analyze the Alliance of Pacifism, Socialism and Suffrage.' Timely hints are to be found in The Notes, and abundant other literature at 685 Boylston street.

"The following statistics are given: Limit to 3000 words, shorter articles are preferable; typewrite if possible, use one side of the page only; nothing will be accepted after May 1st.

"Send articles to Mrs. Herbert Lyman, Anti-Suffrage Headquarters, 685 Boylston street, Boston, Mass.

"A meeting will be held in May at which the best papers will be read."

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LETTERS FROM FRANCE
 (Continued from page 1)

Ah, but this is the life, I am beginning to realize that I never lived before—and I may not live much longer. You don't know how it sets a man to thinking, when a heavy T. N. T. bomb drops near him in the night time in the streets of a great city. It does not make him afraid it simply makes him—lose all respect for mankind. But it is all for liberty.

Dear Professor Miller:
 Military orders forbid me to tell where I am or when I am writing, or to give any information that might be used by

the enemy. But I am here and I'm busy. Haven't yet had time to hunt up Garfield, though I pass within sight of his chimneys every day (there is very little smoke coming out of them, for the simple reason that there is very little coal within many miles of them.) This is a very hard winter for France, and many, many people are cold. But there seems to be plenty to eat, and of course the crowd that I am with have nothing to worry about on that score.

I have three Tech men working for me, and five more in the same building, including our faculty member Albert Sauvers. I meet many influential people and see some very interesting things in the course of a day. Have had some dealings with Rateau, and

have struck up quite a friendship with Le Blanc, the inventor of the condenser of which we have so often heard.
 Best regards to all and wish them a "Bonne Annee" for me. Will write you a good letter soon.
 Riley.

AVIATORS NEEDED
 (Continued from page 2)

attention not usually associated with American quantity, production, and methods has been required, as great watchfulness is essential to prevent any plane leaving the ground in imperfect condition.

Secretary Baker recently expressed this situation as follows:
 "The great problem now remaining is to secure the thousands of skilled mechanics, engine men, motor repair men, wood and detail workers needed to keep the planes always in perfect condition. This great engineering and mechanical force at the airdomes, flying fields, and repair depots, both here and behind the lines in France, is a vital industrial link in the chain of air supremacy. Without them the planes turned out would be useless and the flyers helpless."

Men registered in the draft may be inducted into this service by applying to their local draft board. Men not registered may enlist at any recruiting office. Further information may be had by applying to the air division, Personnel Department, Washington, D. C. In either case they will be sent to San Antonio, Tex., for segregation by trades, followed by a brief course of instruction at the flying fields or at various factories and organized into squadrons mostly for service over-seas.

The present call is especially for machinists, auto mechanics, engine repairmen, gunsmiths, chauffeurs, carpenters, blacksmiths, tinsmiths, sheet-metal workers, propeller makers, wireless operators and constructors, tailors, tent-

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TECHNOLOGY BRANCH

makers, sailmakers, truck masters, vulcanizers, welders and makers, repairs, and installers of magnetos, ignition systems, cameras, watches and clocks, instruments, and typewriters.

SCHOLARSHIP STANDARD AT TECHNOLOGY HIGH

At the present crisis almost all the higher institutions of the country have been greatly affected through decreased or depleted registration of students, and the latest phase of discussion is the unusually large number of students who have failed to keep up to the standard at the beginning of the second term. That, at Technology, this latter number of men should now be smaller than usual is an evidence of the seriousness with which the students consider their lines of study in the light of the needs of the country that, in its emergency, requires technically trained men even more than it needs for the trenches.

The figures just compiled show that thirteen men were required to withdraw from the Institute at the beginning of the second term. Of these students not one was in the Senior class, only two were in the Junior class, eight in the Sophomore, and three in the freshman class. The relatively large number of Sophomores is accounted for by the fact that the existing conditions have proved most critical for the Class of 1920. It is interesting to note that no Senior was required to withdraw, although in past years the number in this position has been uniformly three.

The figures of the past four years show a continuous reduction in the number of men who did not keep up with their studies at Technology as evidenced by the results of the examination sat the end of the first term. In the convenient form of a table the figures are these:

Senior	3	3	3	0
Junior	9	6	3	2
Sophomore	12	8	8	8
Freshman	8	5	4	3
Totals	32	22	18	13

This is one of the matters which helps to sustain the registration at Technology. The close relationship of the regular curriculum to the requirements of war and its supporting industries have made it evident that Technology can be of greatest help to the country by thoroughly educating men for technical pursuits as quickly as possible, and not a little effort has been made to present this fundamental fact to the students and to make it possible for them to bend all their energy towards the utilization of the special subjects taught by the Institute in successfully accomplishing the work of the future. This has been responsible, no doubt, for the exceedingly high registration that the Institute has maintained, registration for the second term being from eighty-five to ninety per cent of its normal figure.

I. T. C. A. DISCUSSION GROUPS

The T. C. A. wishes it to be made clear that the discussion groups will commence this Monday. The professors and instructors who lead these groups will meet each Friday noon in the Caf to plan their subject-matter.

NEW KINDS OF AMMUNITION FOR USE IN AIRPLANE GUNS

The War Department authorizes the following:

The present war brought forth a new kind of ammunition for airplane use in the form of special cartridges containing bullets for armor-piercing, tracing, and incendiary purposes.

With the progress of the war the more vital parts of the airplane were protected with light armor, so that it became necessary to introduce the armor-piercing bullet.

As the gasoline tanks were particularly susceptible to incendiary explosion, it was necessary to procure a bullet containing an inflammable substance, ignited upon discharge, which would carry the spark or flame into the tank upon piercing it.

As the target, the enemy airplane, was within fighting range for only brief moments at a time, and as there were no means of determining the fire effect as on land, a tracer bullet containing a bright-burning composition, which would indicate the path of the bullet in daylight as well as in darkness, and thereby allow the aim of the machine gun to be corrected, was introduced. The composition is set on fire upon discharge and the bullet flies through the air as a bright spark plainly visible to the machine-gun operator.

All of these cartridges are of the small rifle calibers—caliber .30 or thereabout. The 3-10 of an inch diameter and short length of this bullet left little space therein for the armor-piercing element or for tracer or incendiary composition. Nevertheless, combination of armor piercing and tracer and armor piercing and incendiary bullets have been made.

At the outbreak of the war, further information was promptly gathered from the allies and his subject was studied by those responsible for this work in the United States. Of course, on account of the difficulties of the problem, none of the special bullets possessor by any country is entirely satisfactory or what might be termed "perfect" in operation.

The bullets developed by the United States Ordnance Department have been tested on land and from airplanes to see if there is any difference in their performance when fired from a quickly moving airplane in the upper atmosphere and when fired on land.

These tests indicate that the United States has developed a class of special cartridges with a performance fully equal to or surpassing that attained abroad.

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