

ADOPT BLANKET TAX FOR STUDENT FUNDS

Technology Corporation to Levy
Charge of Four Dollars on
Students For Undergraduate
Expenses

NO FRESHMAN EXEMPT

The compulsory student tax is now a reality at the Institute. Acting on the petition for such a tax made by the Ways and Means Committee of the Undergraduates, the Corporation, through its Executive Committee, has announced that hereafter all students entering the Institute must pay a tax of four dollars a term for the maintenance and promotion of student life at Technology. Students already attending the Institute will not be required to pay the tax, but may subscribe to the levy at their option, although unless they pay the amount they will not receive the privileges of the tax-payer.

Inasmuch as the scope of the student life of the Technology woman is narrower than that of the male student at the Institute, the student fee for the co-ed has been set at one dollar, with the stipulation that such moneys will not be used for the benefit of athletics or the Walker Memorial.

According to the statute authorizing the levying of a compulsory tax, no part of the amount raised can be used for any class function or activity which discriminates against any member of the student body. It is further provided that the Institute shall have charge of the care and expenditure of the tax money, subject to the approval of an advisory committee of the Corporation.

The actual plan as outlined differs only in one or two minor details from the scheme suggested to the Institute Committee early last term by the Committee on Ways and Means, which led the larger body to petition the Corporation for the adoption of the compulsory system. In figuring the amount of the tax, the Corporation added to the items covered in the Student Committee's report—Institute Committee, Class Dues, Athletics, Walker Memorial, and Health

(Continued on page 2)

ALLIES UP AGAINST IT

U. S. Can't Build Ships She
Ought, Say Defense Societies

In a speech before the National Committee of Patriotic and Defense Societies on June 14, R. B. Price '94, outlined the military plight which this country and the allies are facing. The speech was adopted as expressing the sentiment of the meeting of the societies and is reprinted herewith:

"Probably history will say that Lord Northcliffe in risking life, wealth and reputation to give Great Britain truths that were either not appreciated or officially admitted, contributed materially toward saving his country from disaster. In America today the same problem exists. Grave warnings are issued by important officers of our government but in many official quarters the question is asked: What good does it do to alarm the people?"

"If the chosen leaders of Democracy are afraid to tell us the full dangers confronting the nation, can Democracy be the strong virile force we are relying upon for the salvation of humanity? Can it compete with Autocracy? Is it worth fighting and sacrificing for? There can be but one answer. So let us have plain facts whose import shall not be lessened by the generous gratitude of our allies for what we have already done."

"No matter how well we have prepared to meet our obligations in this war, if the need is yet greater, we have so far failed. Most of us must admit that under added pressure or greater inspiration we could have accomplished more. If facts like the following had been driven home to our people during the past months, is it not certain that we should have more men, more money, more ships, more supplies, more speed.

TECHNOLOGY MEN

Take This Issue of
The War-Time Tech
to Your Women

AN APPEAL FROM THE FRIENDS OF TECHNOLOGY

If you are the mother, sister, wife,
Daughter of a Technology man

SUBSCRIBE TO AND READ THE TECH

It will tell you of the work
Of the *Friends of Technology* and of
The Technology Center in France.
You can get this information
In no other way.

SUBSCRIBE AT ONCE.

READ EACH ISSUE

Send your name for enrollment
As a *Friend of Technology* and help the work
For Technology in service.

The success of that work depends upon the individual interest and support of every woman who is proud of Technology men, and their part in the War.

Mrs. Edward Cunningham is the Chairman of the *Friends of Technology*, an organization to provide for the men at the front, and to co-operate with wives and mothers left behind.

Get the news of this organization.—Join it.—Know what these women are doing for your men and help them to do it.

ADDRESS MRS. EDWARD CUNNINGHAM

HOTEL LUDLOW, BOSTON

Send \$1.50 to The Tech, Cambridge, Mass., and receive that live publication for the next six months.

because delays very visible at times would not have been tolerated?

"Consider well these facts:

"1. Italian munition plants run part time for want of coal. Germany is not worried over the Italian offensive because she knows it is limited by lack of coal. Unless we can send Italy 250,000 tons of coal per month she cannot long continue her offensive military operations. The ships are not today in sight to carry that coal to Italy.

"2. The Italian and French navies are crippled for lack of fuel. Germany knows this and seeks to destroy coal and oil ships above all others.

"3. If fuel becomes increasingly scarce as it has for some months past, the British fleet next Fall will be so restricted that the German fleet may escape. Then indeed would Hell be let loose on our own unprepared shores.

"4. Germany had her greatest food shortage over a year ago. With 42,000,000 people in her captured territories—almost the population of the British Isles—to use as she can, to till the fertile soil of food-exporting Poland and Roumania, she is not to be starved this year nor next nor any other year, as things look today.

"5. America must rebuild and re-equip the railroads of France and perhaps of Russia to win this war. Some experts say we must, to conquer Germany, send 500,000 workmen, mechanics and railroad operatives, besides an army of from 1,000,000 to 5,000,000 men to France. A good start, even, cannot be made within one year, and perhaps two or three years. Do you know that to maintain 5,000,000 men chiefly in England and just across the 21-mile wide English Channel in France, Great Britain requisitioned one-fourth the entire merchant tonnage of the world?"

"6. During the war nearly one-eighth the merchant tonnage of the earth has been destroyed. This is

(Continued on page 2)

TECHNOLOGY WOMEN FOLLOWING MEN IN WAR MOBILIZATION

Think That Much of Work During the War and Afterward Will Be Up to Women—Catalogueing Abilities to Serve.

STAND READY TO DO THEIR BIT

By Mabel Keyes Babcock

The Technology women who are signing up the supplementary mobilization card issued by the Women's Association are showing a fine Technology spirit.

This card is designed to bring out two relations: that of the individual to National Service, and the type of assistance to be offered to Mrs. Cunningham's Committee of Friends of Technology, which is behind the Technology Center in France.

The inquiry is short, but seems to be clear and sufficient to bring out:

1. Training and experience.
2. Ability to work for emergency service.
3. Present war service.
4. Type of assistance to be offered to the women's special work for Technology.

Much important work during this war and after will be pre-eminently women's work. In it Technology women will lead and are leading all over the country. By Technology women we mean every woman who ever attended the Institute, whether for a short time or a long time, a regular or special student, for everyone gained something of that we call Technology spirit, the respect for thoroughness, accuracy, and honest accomplishment.

Now is the time to bear witness to that spirit. We cannot all lead, most of us must follow, but all can help the committee gather its resources quickly by sending in the registration card promptly. Whatever your ability, whatever your condition, no matter how much you are doing elsewhere, we need your cooperation, and Technology will appreciate your devotion as well as that of her men. There must be no slackers amongst the women, and the returning cards give assurance there will be none.

From Chicago the Private Secretary to the Committee on Laws; Chicago office of the National Board of Fire Underwriters, writes: "I'll do willingly anything I can do. We have a spare room in our home and the latch string will always be out to any woman with Technology affiliations or members of a family of any Institute man." The Vice-Chairman of the Hudson Board of Red Cross, Secretary and Treasurer of Red Cross War Fund Campaign Committee of Taunton, writes: "I am willing to do anything I can for Technology men in service. It hardly seems practical for me to specify what time I could give, especially as I am fully occupied with my dates in my own town. However, if I can serve my country better by giving up work in my own town, and if it were necessary, I can and will live in Boston and give all my time to it."

Another writes: "I am holding a position that is held by men in every other branch of our company in this country. I have held this position for nearly fifteen years, and am thoroughly conversant with every detail of the department work. I know practically nothing about any other line of work. One of my clerks has already enlisted. There are two others and one of them is subject to draft. With the uncertainties which are before us, I feel that my duty lies in staying where I can be of service to my company, for there must be somebody who can look after the truck tires, so that deliveries can be made without delays, for in times of storm, holdup means much to those concerned. In your circular letter you mentioned 'preparation of supplies.' If I can help in this work or in any of the work of which you speak, after hours, I shall be very glad to do it."

Another: "Am not an expert in anything. I have an ordinarily good brain and possibly a pair of more than ordinarily good hands. Have made sur-

gical dressings for two years at the French Volunteer Rooms. Will assist the Technology Committee in any way I can be useful."

The Committee announcements of plans as they mature will be made through The Tech. Begin your service by subscribing to it, and get direct from headquarters information, inspiration, opportunity and instruction.

The following is the text of the letter sent to the Technology women for mobilizing them into war service:

"Dear Fellow Alumna:

"The Alumni Association of Technology is establishing a Technology Center in France, and an Auxiliary Association of women interested in the Institute under a central committee in Boston. Mrs. Edward Cunningham, Chairman, to especially plan for the welfare of Institute men in service.

Every woman who has ever had Technology affiliations will be under obliga-

(Continued on page 3)

COWS WELL TRAINED

Show Almost Human Intelligence at Machias Camp

(From the Boston Journal.)

TECHNOLOGY, Me., July 8.—Members of the Technology Training Unit, at Camp Cunningham here for the summer, are learning fast. Besides instruction in the manual of arms and everything that goes to make a soldier, they have learned something about Maine cows.

Now, as it happens, there are cows and cows, and then there are Maine cows. The average cow, be it known, will walk right through anything, from a strawberry patch to the Cape Cod canal. Never will the average cow go around. But Maine cows—wait.

Today arms were stacked when a grove of sad-eyed bossies headed armward.

"There go the stacks," shouted a tired student soldier in disgust. But, behold, the herd stopped, sniffed, and then, majestically, yet indifferently, walked around and continued their march, while five students fainted in sheer surprise.

Outside of this event and a jolly July 4th, camp life to date has been one—drill after another.

HOPE TO GET 10,000 MEN FOR NEW MERCHANT FLEET

Henry Howard, director of recruiting for the United States Shipping Board, is well satisfied with the showing made by the newly organized class in navigation for the new merchant marine ships. Several members of the class have already passed their examinations before the steamboat inspection service, and he says he feels that the fleet of American ships now building will be admirably officered and will help swing the balance to the side of the allies.

He started out to recruit 5000 deck officers and 5000 engineers. His office in the Custom House is constantly busy answering questions of applicants from all sections of the country.

Those from the navigation classes at Harvard and Massachusetts Institute of Technology, who have passed their examinations for licenses are Melvin H. Fowler, Odber McLean, James A. M. Earle, Richard H. Hopkins and Waite H. Patten. They will have two months' intensive training at sea before joining vessels.

The class in engineering for this section of the country opens at Technology tomorrow under the direction of Prof. Edward F. Miller.

MRS. CUNNINGHAM VISITS SOPHOMORES AT E. MACHIAS

(Special to The Tech)

CAMP CUNNINGHAM, Technology, Maine, July 9—Mrs. Edward Cunningham, donor of the Camp Cunningham Fund, and James P. Munroe '82, Secretary of the Institute Corporation, arrived here this morning for a day's inspection of the Sophomore company. The arrival of the guests at Bemis Hall was heralded by cheers from the entire camp, while in the afternoon an exhibition drill and company review was staged in honor of the visitors.

NAVY MEN MUST WEAR UNIFORMS CONTINUALLY

Order Forbids Civilian Dress, Either On or Off Duty During War.

All officers of the United States Navy on active duty must appear in full uniform, with the insignia of their rank, whether on duty or off, on ship or land, according to an order received at the Charlestown Navy Yard yesterday.

It has been the practise of naval officers to dress in civilian clothes as soon as they were off duty and ashore, but now every member of the regular navy, from Commandant Rush down, naval volunteers (the naval militia) and naval reserves will have to appear in uniform. It is expected an order will follow soon for the seamen to appear in uniform at all times. At present many of them have lockers in Charlestown buildings and don their civilian clothes after leaving the yard.

What Are You Doing? Drop a line to the Mobilization Committee, Cambridge. Technology will never forget her sons.

The Tech

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TUESDAY, JULY 10, 1917

THE TRAINER.

ONE of the striking features in the daily life of the government aviation students quartered at the Institute for instruction, is the rigorous physical training through which they are put. It is impressive to watch these picked men, to note their present fitness as they go through their evolutions at the athletic field, and to compare the condition of the veterans of eight weeks with that of the newest arrivals.

One figure looms above all others at the field. It is that of Frank Kanaly, our athletic coach, who is in charge of this work. In the perfect health born of scrupulous and constant care of the body, he stands an example of what physical training and clean living can do for a man, furnishing a daily inspiration to the men who work under him. Contact with such a man is a rare privilege, and must inevitably have a strong effect upon the life that enjoys it. Technology may well be proud to number among her instructors a man who is capable of such effective service to the government.

A SCHOOL FOR LEADERS.

THE new Junior Military school is furnishing a living embodiment of the old principle that in order to be able to command, one must know how to obey. Every man is first given thorough training in the art of being a private, and then put through the more advanced work required of an officer. In this way, though every man is to get an opportunity to fill every position from Corporal to Captain before the summer is over, the greater part of his time is being spent as a private.

This is but carrying into a new field the Technology ideal of education, instruction of the student through laboratory work in the actual art of doing things in order that he may be an effective and original leader in industrial fields. If the results of the system in military directions are as gratifying as those in the regular course of Technology education have been, the Institute will turn out a group of commanders for the army second to none in quality of leadership.

The Walker Memorial is rapidly assuming an external aspect of completion, and together with the President's house and the Dormitories, gives to the observer approaching over Harvard Bridge a suggestion of the future appearance of the Technology group. Looking at the imposing collection of buildings, the thought naturally arises that the expansion of the Institute came at a more opportune time than the original promoters of that expansion dreamed of. To serve the government as she is now doing would be tremendously difficult, if not impossible, were Technology still housed in her old home on Boylston Street. There could be no accommodation for Aviators and Naval Reserve as at present. Government recognition might not have been so quickly granted. Truly it is well for Technology that she grew when she did.

ALLIES UP AGAINST IT

(Continued from page 1)

nearly double what has been launched in the same period.

"7. If not another ship were destroyed by mine or submarine from now on, we still could not send 1,000,000 men to France and maintain them, one year from today.

"8. Nobody has yet added together the total new demands alone for tonnage and yet new needs of appalling magnitude are appearing every week. Great Britain's army of 5,000,000 in the year 1915-16 consumed more meat than the entire British Nation, 46,000,000 strong, in 1913. And yet there are not enough ships to meet the needs of last year when we steadily went backward. How are we to meet the new demands for cargo space that

our entrance into the war involves? An increasing number of ships will be available next year, but the additions for the next eight months are pitifully inadequate. England says one ship this year is worth six next year.

"9. How fateful are the next eight months,—when Italy may succumb, when Russia appears helpless, when even the glorious British fleet, the sole saviour of the United States for the past three years, may be rendered impotent. Is it not clear that "fighting for democracy" is for America but part of the case? We are fighting for our very lives.

"Who says we have met our full obligations? Under no conceivable conditions can we build all the ships we ought to have during the next eight months. How close we come to it depends in part upon how well we, of

INSTITUTE MEN OFF TO RUSSIA WITH RED CROSS

Three Technology Men Sail With New Commission of Twelve to Draft Plans For Relief Work

LEAVE AMERICAN PORT SOON

Dr. George C. Whipple, professor of Sanitary Engineering at the Institute, C. E. A. Winslow, '98, professor at Yale, and Henry J. Horn, '88, will accompany a special Red Cross Commission to be sent to Russia as the first step of the plan of relief organization "to do something immediately to lighten that country, it was announced in a statement issued Friday by Henry P. Davidson, chairman of the Red Cross war council.

The Commission which is to make an extensive study of the needs of the Russian nation, will be composed of a group of eminent men from all over the United States and will carry with it a quantity of medical supplies and surgical instruments for distribution to the hospitals, institutions, and Red Cross organizations in Russia. The purpose of the commission will be to ascertain along the broadest possible lines in what manner the Red Cross can extend most effective relief work to the wounded, and what can be done to help the needy and suffering civilian population.

There will be twelve men on the commission—all experts in problems of medicine, public health and social welfare. Besides Dr. George C. Whipple, Raymond Robbins of Chicago, and Dr. J. C. McCarthy, professor of public health at the University of Pennsylvania, will accompany the commission as advisers of sanitation and public health.

To deal with general medical problems the commission will have the services of Prof. William S. Thayer of Johns Hopkins University, Prof. C. E. A. Winslow, of Yale, and Dr. Wilbur E. Post, of Chicago. The commission will also make a study of Russia's food supplies, and will be assisted in this work by Harold H. Swift, of the packing firm of Swift & Co., of Chicago, and Prof. Henry C. Sherman, of Columbia University. Mr. Swift and Prof. Sherman will consider the needs of convalescent soldiers and prisoners, as well as of the civilian population and the men at the front.

"In cooperation with the American railroad commission already in Russia," an announcement sent out today from the Red Cross headquarters said, "the Red Cross commission will study the problem of transportation, especially with reference to making sure that shipments of relief supplies may reach destinations without delay. For this special work the commission has as one of its members Henry J. Horn, formerly vice-president of the New Haven railroad. In addition to the foregoing, the members of the commission are J. W. Andrews, Thomas Thacher and Dr. Orrin Weightman. Accompanying the commission as inspectors and attaches are R. I. Barr, Norton C. Travis, William Cochran, William C. Nicholson, Cornelius Kelleher, Malcolm Timie, Alne Wardwell and Maj. Malcolm Grow, U. S. A.

"The determination of how American relief on a large scale can best be administered in Russia will not be made by the Red Cross war council until after preliminary investigation by this special commission.

these patriotic societies, bring the need home to our people. Then may the pressure of enlightened public opinion urge Congress and the Executive Staff of the Nation, with their co-operating agencies, to their utmost speed, efficiency and unselfishness, and adequate attention to the greatest need confronting us at this moment—every extra ship possible during the next eight months."

ADOPT BLANKET TAX FOR STUDENT FUNDS

(Continued from page 1)

insurance—the provision for a reserve fund, bringing the original estimate from \$6.80 to \$8.00 for the Institute year.

The adoption by the Corporation of the compulsory system came as a glad surprise to most Technology men who have been connected with the collecting of money from student activities by the various methods used in previous years, such as the blanket tax, athletic dues, or voluntary contribution. That the tax had really been authorized was announced in a circular enclosed in the report of standing sent to each stu-

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dent last term. A copy of the notice follows:

The following rules regarding the student tax have been promulgated by the Executive Committee of the Corporation:

1. That a tax of \$4 per term be levied on all male students attending the Institute who enter after September 1, 1917, and who pay, or have paid on their behalf, more than half the regular tuition fees for the term and that the corresponding tax for students who pay one-half the regular tuition fee or less be \$2 per term.

2. That in the case of female students the tax be \$1 per term for those who pay more than half the full tuition and 50 cents per term for those who pay half or less, and that no part of this tax be appropriated for the maintenance of athletics or of the Walker Memorial.

3. That this law be levied on all students, including graduate students, special students and unclassified students.

4. That the tax be remitted and the corresponding amount supplied from funds applicable to such purposes in the case of all students who are granted scholarships on the basis of financial need and of others who may be exempted from the payment of the tax by a committee appointed to deal with such matters.

5. That the proceeds of the tax be devoted to the promotion of student life at the Institute with special reference to the physical and social welfare of the students. No part of the tax shall be spent for any class function, athletic event or social entertainment that is not open without charge to every qualified member of the student body in good standing.

6. That this tax be expended under the general direction of the Institute Committee subject to the approval of an Advisory Committee appointed by the Corporation.

7. That during the first year the tax be apportioned approximately as follows:

Institute Committee\$0.17
Class Dues73
Athletics2.50
Walker Memorial3.00
Health Insurance1.00
Reserve and Contingent Fund60

RICHARD MACLAURIN, President.

Note: It will be observed that the tax is compulsory only in the case of students who enter the Institute after September 1, 1917. In the case of those students already at the Institute who combined their courses in later years, the tax will be voluntary, but the benefits accruing to those who pay the tax will not be extended to those who do not pay.

Technology men have mobilized. Technology women, your turn now. Technology will never forget her sons.

Homer F. Livermore

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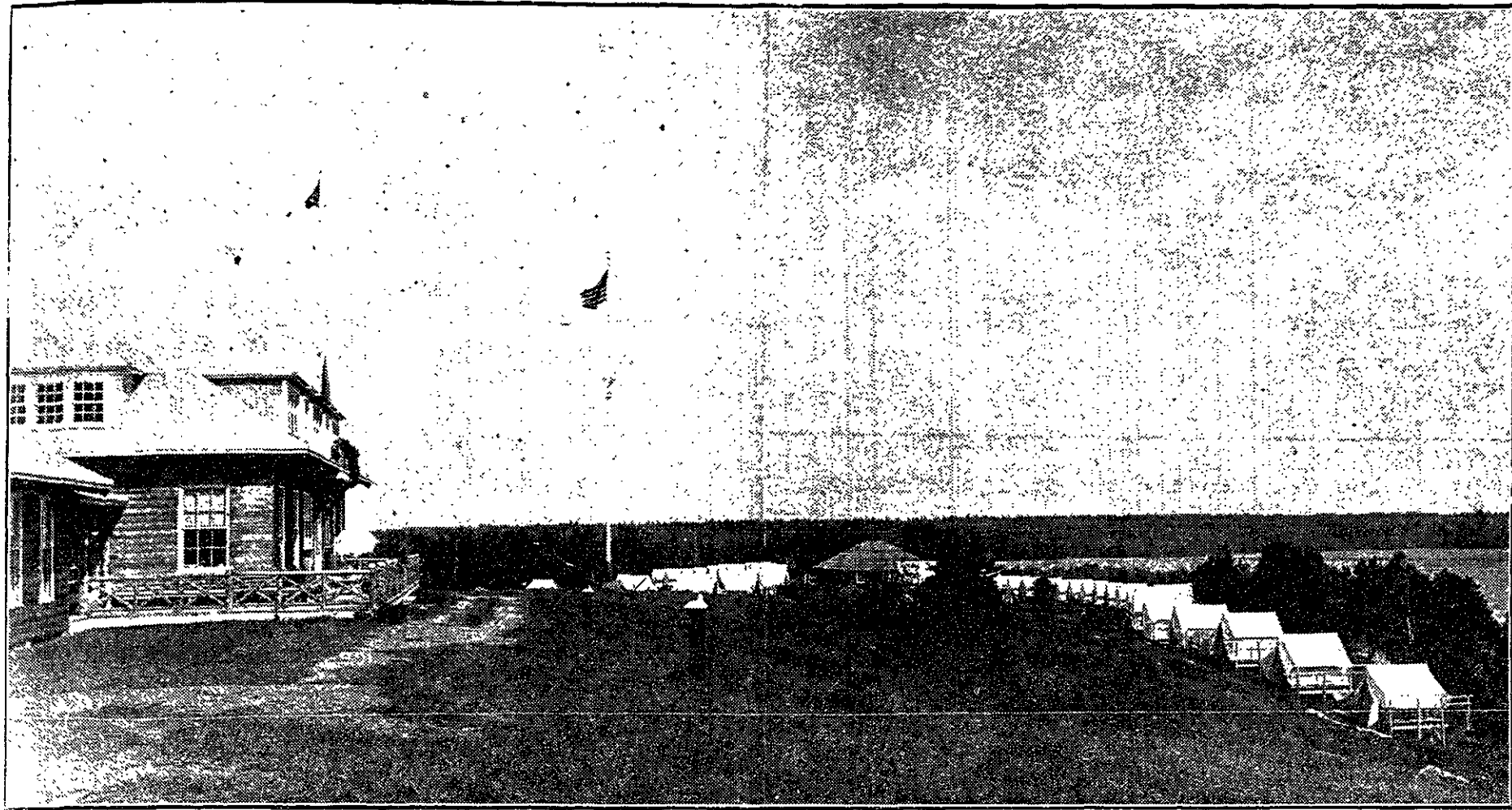
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INSURANCE OF ALL KINDS

Sophomore Campers Hold Big Independence Day Celebration



(Special to The Tech.)

CAMP CUNNINGHAM, Technology, Me., July 4.—Twenty-four hours a day are not enough for the general staff at Camp Cunningham. To the men who had thought that the summer training unit on the shores of Gardner's Lake was almost one drill after another, the announcement that the number of hours of drill per day would have to be increased to complete the program called for, came as a big surprise. The time is so limited that it was necessary to lengthen the hours of drill each day to cover the scheduled intensive military program. The new schedule was announced in general orders number four and is as follows: "Beginning July 3, the following schedule of bugle calls and formations will become effective:

Week Days.	
5:30—First Call	
6:00—Reveille	
6:25—Mess	Assembly
6:30—Assembly	
7:00—Sick Call	
7:10—Drill	
7:15—Assembly	
11:30—Recall	
11:55—Mess	
12:00—Assembly	
12:55—Drill	
1:00—Assembly	
5:15—Recall	
6:05—First Call	
6:15—Assembly	Retreat
	Colors
6:25—Mess	
6:30—Assembly	
9:15—Quarters	

9:30—Taps (Sundays, according to old schedule) In preparation for the big celebration on Independence Day, a Technology Sophomore Military Band was formed under leadership of Bugler R. H. Gilbert and consisting of two cornets, Lieutenants Tuttle and DeBell, drum, Young, and flute played by Hackett.

Under the direction of Superintendent of Buildings and Power Smith, the work on the power house was rushed to completion and lights were burning in the company streets and barracks before dark. After mess the lights were turned on and later, while most of the company were assembled in Bemis Hall, the band struck up a lively tune, the company fell in behind, and all marched to the new barracks amidst the crackling of flares and sparklers. With the occupation of the new barracks the company made a great demonstration, with the singing of the Stein Song and cheering.

This morning broke fair with a clear sky and arrangements were immediately begun for the Independence Day events. After the morning mess the entire company filed past the camp store where each man received a half pound of chocolate, gift of Mrs. Edward Cunningham, donor of the fund which made Camp Cunningham possible. Fireworks were also distributed.

Athletic events and a water sports carnival were held this morning, being featured by a tug-of-war between the front rank and the rear rank and five closers. After a four minutes' tussle the rear rank pulled the men they "cover in file" through the four feet of mud which separated the opposing teams. Davis, Caldwell and Little were stars on the track sharing the honors pretty evenly in the obstacle and 50-yard road races, but keeping all others out of the running for the first three places.

The swimming races were closely contested, starting with the 25 yard sprint and ending with the half mile. Birmingham came in a winner in the 25 yard swim, while Sherman, McKay and Boley won the 50 yard, the 100 yard and the half mile races respectively.

After the field and water events, the men went over to East Machias to meet the renowned East Machias team in a snappy game of ball. The snappiness was all taken out of the local team, when the strong camp battery, after a speedy fight, won with a score of 7-1. The hikers returned to camp in a thick fog, arriving so late that they were too tired after eating to build the fire which had been planned and to set off the fireworks that had been sent by Mrs. Cunningham, but instead saved them for another celebration which they are going to hold Saturday night.

Mr. Advertiser:

Do you know that **THE TECH**, which is the official news organ of the Massachusetts Institute of Technology has now a guaranteed circulation of nearly **TEN THOUSAND?**

And, do you know

that this number includes practically every man who ever went to Technology, a class of men more intelligent and more prosperous than any similar body in the country?

Mr. Advertiser,

do you realize what this means to you as an opportunity to add to your clientele men unequaled in their buying power and in their ability to appreciate your wares?

The news circulated by **THE TECH** is largely news of National Service being rendered in the present crisis by Technology men. It is vitally interesting and vitally important to readers.

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INSTITUTE'S YOUNG ALUMNUS

F. P. A. of the New York Tribune sends us the following clipping:

These Precocious Boston Infants!

(From the Pullman (Wash.) Herald.) Mr. and Mrs. Howard Melvin and infant son returned yesterday from Boston, Mass., where he received his master's degree in electrical engineering from the Massachusetts Institute of Technology.

TECHNOLOGY WOMEN FOLLOW MEN IN WAR MOBILIZATION

(Continued from page 1)

tion to do her part. The lines of work will include correspondence and visiting with families of men in service, and possibly advice and friendly counsel in time of emergency. There will be preparation of supplies, reading and recreation matter and such other work as may be deemed advisable as the plan develops.

Please signify your hearty co-operation with this movement by answering the questions on enclosed card affirmatively. Your prompt attention is requested to the entire registration card for the reason that the government is now applying to Technology for recommendations of trained women for special positions and we are very desirous that our National Service shall be that of placing our women where their special training shall become most effective.

MABEL KEYES BABCOCK,
President.

Who Are You? Where Are You? What Are You Doing? Drop a line to the Mobilization Committee, Cambridge.

TECHNOLOGY GRADUATE WRITES MARINE ENGINEERING HANDBOOK

Charles H. Hughes Presents Most Complete Text on Subject

One of Technology's graduates, Charles H. Hughes '00, has recently contributed to the long list of technical texts, a book entitled "Handbook of Ship Calculations, Construction and Operation." The volume is the culmination of considerable research work and collecting of material by its author, and now stands as the most complete of its kind ever published.

The first four chapters of the book deal for the most part with calculations which include all necessary tables and formulae, definitions, strength of materials, etc. The next five cover thoroughly the construction and equipment of all types of merchant and naval vessels, while the last chapter is given up to a discussion of ship operating.

The work is especially valuable to ship owners and operators, although it contains material which make it an important addition to the library of officers, engineers, underwriters, designers of warships, and students of naval architecture and marine engineering. The contents treat with both the marine and the naval aspects so that it serves the same purpose for both the civilian and the naval man. The book, which has over one thousand pages and is illustrated with over 120 photographs and diagrams, is published by D. Appleton and Company and sells for \$500 a copy.

Help by sending your name and service to the Mobilization Committee, Cambridge.

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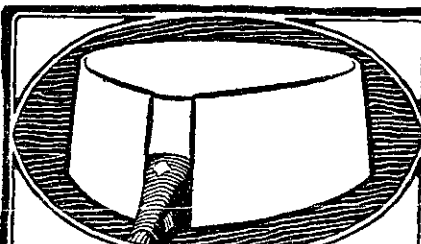
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ALUMNI NOTES

WASHINGTON CORRESPONDENCE

By Maurice R. Scharff, Executive Secretary, Technology Clubs Associated, 908 Union Trust Building

Washington, D. C., July 7, 1917.

News of the Week

S. P. E. E.—Technology men took a prominent part in the annual meeting of the Society for the Promotion of Engineering Education, held at Washington July 6 and 7.

Among the speakers on the program were Hollis Godfrey '98, I. W. Litchfield '85, M. R. Scharff '09, F. P. McKibben '94, and E. B. Phelps '99.

Other visitors in connection with the meeting were G. F. Swain '77, H. W. Tyler '84, Prof. D. C. Jackson, Prof. Aydelotte, F. L. Bishop '98, A. R. Culmore '07, K. W. Reed '13, and others.

Personal. Morton E. Cobb '87, has been commissioned as Captain in the Quartermaster Officers' Reserve Corps.

P. L. Caldwell '10, has been commissioned as First Lieutenant (Supply Officer) in the Aviation Section of the Signal Officers' Reserve Corps.

H. B. Luther '08, has been appointed Junior Inspector of Construction in the Navy Department, where he is associated with J. C. Hunsaker '12.

Washington callers this week have included W. B. Van Inwegen '09, H. W. Bull '04, and Norman Holmes '13.

Aviation Section. The Aero Engineering Division of the Aviation Section of the Signal Corps has drawn on Technology for a considerable part of its personnel, including Major Henry Souther '87, S. O. R. C., Chief of the Division, and Capt. George R. Wadsworth '98, S. R. O. C.

Sanitary Service. Secretary Baker has approved an order creating a sanitary corps under the Medical Department of the Army which will include various classes of experts in sanitation, bacteriology, sanitary engineering, and men skilled in the supply, transportation, storage, etc., in connection with Medical Department work.

The following quotation from the order will be of interest:

"The officers of said corps will be provided by assigning officers of the Medical Reserve Corps thereto, or by the appointment of citizens of the United States who are found under regulations established by the Secretary of War to possess special skill in sanitation, in sanitary engineering, in bacteriology or other sciences related to sanitation and preventive medicine, or who possess other knowledge of special advantage to the Medical Department."

Red Cross. The Red Cross has dispatched to Russia a Special Commission to lay plans for carrying on relief work in Russia on a large scale. Among the members are George C. Whipple '89, C. E. A. Winslow '98, and Henry J. Horn '88.

By Maurice R. Scharff
Executive Secretary, Technology Clubs Associated.

Col. P. R. Hawkins '89 of the Norton Company, has supplied us with the following statement regarding conditions in the abrasive industry, which should be interesting and useful to many Technology men:

The War-Time Tech

TECHNOLOGY itself is giving remarkably effective war service to the Country.

THE ALUMNI in large and rapidly increasing numbers are in government or industrial work essential to war success.

THE UNDERGRADUATES are efficiently fitting themselves for similar patriotic duty.

TECHNOLOGY WOMEN are organizing to provide for men at the front and to co-operate with wives and mothers left behind.

Already Institute men are in EUROPE, and Lansingh '98 is on his way to open a Technology centre in Paris.

The thousands of Technology men and the hundreds of thousands interested in the Institute should have news of all this and should have it promptly.

THEREFORE the undersigned have co-operated to render this news service by making THE TECH the organ of ALL TECHNOLOGY for the period of the war.

THE WAR TECH WILL GIVE:

NEWS straight from the live Alumni centre at Washington, in the heart of things.

NEWS from the fifty local Technology Associations all over the Country.

NEWS from the Technology centre in Paris, in touch with all those at the front.

NEWS from the Summer Camp, from Plattsburg and from all other training camps where Institute men may be.

NEWS of the varied activities of the Institute itself and of its teaching staff.

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"We wish to bring to your attention the probable shortage in abrasives, grinding wheels and grinding machinery necessary to manufacture the large quantity of munitions and other supplies required by the United States Government.

"Imports of emery have practically ceased during recent years so that the grinding wheel industry is dependent upon artificial abrasives. These are manufactured from bauxite and carbide of silicon. The leading and perhaps best known abrasive manufactured from bauxite is Alundum, and Crystolon and Carborundum are examples of those made of carbide of silicon.

"There is a great shortage of cars necessary for the shipment of bauxite from the mines in Arkansas to the places where abrasives are manufactured; the power supply at Niagara Falls, where the important abrasive plants are situated, is likely to be inadequate; we cannot obtain sufficient alumina to make the necessary amount of White Alundum, a special abrasive used principally for munitions grinding wheels, and if the draft should today take all the men registered in our works we would lose fully forty-five per cent of our organization. These are some of the problems which confront abrasive manufacturers at the present time. Norton Company, the largest manufacturer of grinding wheels in this country, is doing what it can to meet these conditions, but the situation should be thoroughly understood by those who are working in the interests of the Government.

"We have the example of England which did not appreciate the situation with regard to grinding wheels and found itself in a very serious position on account of the lack of wheels for

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grinding shells, gun barrels and other necessary munitions work. The Munitions Board of Great Britain finally sent representatives to this country and we, among others, were very urgently appealed to to help relieve the situation which we did to the greatest possible extent. We expect a similar condition to occur in this country and everything possible should be done to anticipate the shortage."