

CROIX DE GUERRE TO E. C. S. BIGELOW

Technology Man Decorated for
Distinguished Service at the
Front—Enlisted in Ambulance
Service

WAS AT SOISSONS AND VERDUN

According to a cable message, just received, the Croix de Guerre has been awarded to Lt. Edmund C. S. Bigelow, a son of the late Lucius A. Bigelow of Boston. He was at Technology, but went abroad in the ambulance service, but later enlisted in the Red Cross. During the past six months he has been with the French army at the front, near



LT. EDMUND C. S. BIGELOW

Soissons, and afterward at Verdun, running several canteens with great success. He has been under shell fire most of the time and has had many narrow escapes.

In a recent letter he tells how his kitchen was smashed and his chocolate wasted. He says it was the third lot he had lost that way.

FIFTY LOWELL INSTITUTE MEN RECEIVED DIPLOMAS

Graduation exercises of the Lowell School for Industrial Foremen were held recently, in Smith Hall, room 10-250. This school, one of the philanthropies of the Lowell Institute is directed by Professor Charles E. Park of Technology, and the studies are carried on evenings during the season in the laboratories and lecture halls of the Institute. In this way greater efficiency is afforded by the great laboratory plant in Cambridge by adding evening hours to those preempted by the regular students during the day.

Industrial foremen of foresight are the kind of men that the Government is needing acutely in its industrial and military work and this is just the material that the school is adapted for, so that the call of the war has taken from it a goodly percentage of its finished students. For this reason the graduating class was only in the neighborhood of fifty. The alumni dinner was an event of the previous evening and tomorrow the graduation exercises will be in order.

The speakers for the occasion were President A. Lawrence Lowell, Dr. A. E. Kennelly, representing the Technology in place of President MacLaurin and Professor Park, head of the school, with the principal address by Gen. John A. Johnston, U. S. A., commander of the Northeast Division. This was his last address in this vicinity.

The Lowell School has been doing its full duty in the response of its alumni to the call of their country, some two hundred being now in the Service or in industries allied to war, while most of those in military service are commissioned officers.

EMPLOYMENT MANAGERS TRAINED IN COLLEGES

Third Course Planned to Supplement
Work at Rochester and Harvard

At the request of shipbuilding companies and other companies engaged in war production, the Industrial Service Department of the Emergency Fleet Corporation, in co-operation with the Quartermaster and Ordnance Departments, has arranged courses for the intensive training of employment managers.

One such course is conducted in Rochester, N. Y., by the University of Rochester and the other at Cambridge, Mass., under the joint conduct of Harvard University, Technology, and the Boston University. These classes are limited to twenty students, which allows the maximum of individual instruction. The students are enrolled in a six weeks' course of class-room work and the application of that through practical and factory tests.

All of these students are taken from employment departments of war industries and these men will return to their work with a better viewpoint trained to meet the employment problems. The following shipbuilding companies were represented by one student each in the Rochester course, which opened March 26:

Baltimore Shipbuilding & Dry Dock Company, Chester Shipbuilding Company, Merchants Shipbuilding Company, Johnson Shipbuilding Company, Maryland Shipbuilding Company, Mobile Shipbuilding Company, Pusey & Jones Company, and the Submarine Boat Corporation.

The following shipbuilding companies sent one representative each to the Cambridge course, which opened on April 22: American Shipbuilding Company, (Detroit); Bethlehem Shipbuilding Company, Chester Shipbuilding Company, Dantzer Shipbuilding & Dry Dock Company, Potomac Shipbuilding Company, Pusey & Jones Company, L. H. Shattuck, Inc.; Submarine Boat Corporation, New York Shipbuilding Company.

(Continued from page 2)

TECHNIQUE 1920

Campaign for Signups for Junior Portfolio Closes Today

This afternoon the campaign which is being run for the purpose of securing signups for Technique will close. This campaign however was only open to Juniors. Up to the present time only seventy-eight names have been received, but it is absolutely necessary that the remaining one hundred and twenty signups be received in order to insure the success of the book. It has been evident that due to the pressure of examinations the students have not been able to subscribe, but members of the Junior class who have not yet signed up, will have an opportunity to do so. Signups may be obtained from any member of the Technique 1920 board or from Hackett '19, Banks '19, Parson's '19, Caldwell '19, McCarten '19, Smoley '19, Mayer '19 or Balfour '19.

Pictures of the Junior class for the Portfolio will be taken this summer. Further details will be announced later in The Tech. The price of the book will be \$2.75, but if the total amount is paid at the time of signing up there will not be an extra charge for mailing and insurance. If the book is bought and only the \$75 is paid it will be sent to any address C. O. D. but with an extra charge of \$25.

FITCHBURG AVIATOR KILLED IN FRANCE

Lieutenant Theodore Wyman, a Fitchburg boy, serving in the British Royal Flying Corps, was killed in France. His mother, Mrs. Flora A. Wyman, 58 Summer street, received a cablegram apprising her son of the accident tonight. She has four other sons in the service. Lieutenant Theodore Wyman graduated from Technology in 1915, and a year ago entered the flying branch of the Canadian army. After training in Canada and England, he was sent to France. No details of the death were received.

TENNIS TEAM CLOSSES SUCCESSFUL SEASON

Wins the New England Intercollegiate Tennis Match and
Stands Second in Intercollegiate Ranking

WINS 7 MATCHES AND LOSES 1

The Technology Tennis Team has had quite a successful season, having won seven matches and lost one. Besides this the team won the intercollegiate match, but lost its match with Yale, so that places the team second in intercollegiate ranking. The following are the results of this season's matches; Technology defeated Trinity College 6-0, Harvard, 6-0, Holy Cross, 5-1, Bowdoin, 6-0, Amherst, 4-2, Williams, 4-0, Worcester Polytechnic Institute, 6-0, and the team lost to Yale by the score of 0-6. In the first two matches, those with Trinity College and Yale, the team was composed of Wei, captain, Kimball, Weyer, and Barron, and in the remaining matches Wei, Brockman, Kimball, and Barron, made up the team, Weyer having left the Institute to go into the service. Brockman proved to be a big asset to the team.

In the Intercollegiate Meet, Wei and Brockman won the doubles, Brockman was runner up in the singles, and Wei was beaten by the winner of the singles in the semi-finals. The individual standing of the men is as follows: Wei won five matches and lost three, Brockman won four and lost one, Kimball won six and lost two, Barron won seven and lost one, and Weyer won one and lost one. The results of the doubles are as follows: Wei-Brockman won four matches and the intercollegiate match, and lost none, Kimball-Barron won five and lost one, Wei-Weyer won one and lost one, Wei-Kimball, won one and lost none, Wei-Barron won one and lost none, and Brockman-Barron won one and lost none.

The prospects for next year's team are good. Although Wei will not be back, Brockman and Barron expect to return, and there is a possibility of Kimball's remaining at the Institute another year. The freshmen team has been rather weak, but it is hoped that some good material will turn up with next year's freshmen class.

SCHOOL FOR ENGINEERING OFFICERS AT HOBOKEN, N. J.

The United States Navy Department has perfected plans for the enrollment and training of considerable numbers of engineering officers. A school for this training known as the United States Navy Steam Engineering School, has been established at the Stevens Institute of Technology, Hoboken, New Jersey, under the guidance of Dean P. L. Pryor as Civilian Director.

The course consists of five months training, divided as follows. One month of military training at the Naval Training Camp, Pelham Bay Park, New York. One month at the U. S. Navy Steam Engineering School. Two months practical training on board ships and in repair shops in the vicinity of New York and one month finishing course at the U. S. Navy Steam Engineering School.

The school is open to men between twenty-one and thirty, who the physically qualified, of thorough ability and officer-like character, and who have completed the engineering course at any recognized technical school.

This school presents particular desirable opportunities to the young technical man, both in affording him a proper outlet for his trained facilities during the war, and in rounding out his college work with a practical course and school experience which will be of value to any engineer.

The service that a graduate from the school will perform will be that of an engineer-officer in the auxiliary service of the Navy. A graduate of the school will be commissioned an Ensign in the U. S. Naval Reserve Force.

Information has been sent to all reg-

(Continued on page 2)

MEN OF AGE MUST REGISTER IN THE DRAFT BY JUNE 5

All Technology students who will have become twenty-one years of age on or before June 5, 1918, must register in the United States military draft, either at their local board here, if they have taken up a permanent residence, or in their own local board, if their residence here is only temporary. In order to aid the students in the work of registering, the Institute has made arrangements to have registration cards filled out at the Information Office, room 10-100, on which full particulars must be given concerning the registrant's physical condition, scholastic standing, and some general facts. When filled out these cards must be mailed at once to the local draft board, so that they will be received by June 5, for all registration must be completed by that date. Upon receipt of the cards, the local draft board will mail the registrant a registration certificate.

Failure to register or tardiness in sending in the cards is liable to result in serious proceedings, and it is therefore advisable for every student included in the new registration to fill out and send away his material at once.

RIFLE CLUB ELECTIONS

The following men were recently elected officers of the Rifle Club for the coming year: President, A. C. Atwater '20; vice-president, E. A. Beer, '21; secretary, W. D. Morrison '21; treasurer, F. Pratt '21. Team captain, J. R. Perkins, Jr., '20. The ballots were very close in each case.

These officers will assume their duties in September when the regular fall term commences, and the club will continue its work during the summer under the old management. It has been deemed advisable to have no more trips to the Walnut Hill range until the summer term opens, owing to examinations and vacations, but there will probably be a trip June 15, for which a sign-up sheet will be posted on the opening of school.

U. S. SHIPPING BOARD

Holds Conference to Prevent Shortage of Deck Officers

Steps to prevent a shortage of deck and engine department officers in the new merchant marine when larger number of ships are coming off the ways were taken in a national conference at Boston, May 24 and 25, of recruiting service officials of the United States Shipping Board.

Those attending included Henry Howard, director of the Shipping Board Recruiting Service; Edward F. Flynn, assistant to director; John F. Lewis of Philadelphia, Hardy Green of Jacksonville, William J. Grambs of Seattle, Capt. Irving L. Evans of Cleveland, Major Horatio Hathaway, Jr., of Boston, section chiefs of the Shipping Board's free navigation and marine engineering schools; Capt. Ernest E. B. Drake of New Orleans; Prof. Alfred E. Burton, chief instructor in navigation, Prof. Edward F. Miller, chief instructor in marine engineering; Henry G. Vaughan, supervisor of sea training; Capt. Eugene E. O'Donnell; Edward C. Hovey, Jr., chief of the sea Service Bureau; J. Duke Smith, chief of the Selective Service Law Bureau; Cleveland Bigelow of the Sea Service Bureau; Arthur Winslow, Field Agent Winfield M. Thompson and Edwin Reynolds, of Boston.

The conference included visits to the Shipping Board's navigation and marine engineering schools at Massachusetts Institute of Technology, the enrolling agents' department at the plant of the United Drug Company, and the training base at East Boston, where the training ships Meade, Calvin Austin, Gov. Dingley and Gov. Cobb have their base, and a cruise to Marblehead, where the visitors saw the merchant marine apprentices in actual training.

The seamanship classes, life boat

(Continued on page 3)

TRACK TEAM HAS A VICTORIOUS SEASON

In Spite of the Poor Outlook the
Team Manages to Go Over
the Top—Coach Kanaly De-
serves Much Credit

I. C. A. A. A. MEET TODAY

With the entry of the United States into the war a year ago last April it was thought by many that the track team was due for an unusually bad season compared with previous years, for practically every member of last year's varsity team had entered the service for Uncle Sam. There was left for a nucleus of a winning team only a few men but Coach Kanaly, with the opening of the fall term, entered into the work of building up a new team with great energy. Among the men that had been lost were Captain Barney Dodge '17, Rimbach '18, R. C. Coward '20, Hamilton '18, O'Hara '17, intercollegiate indoor sprint champion, Doon '17 and Russert '18.

The first track event of the year was the Hare and Hound Chase at Melrose in October. Following this the Cross-country team defeated Harvard on Oct. 27 by the close score of 31-36. Captain Lewis of Harvard won first place over Captain Herzog of Technology by a margin of 25 2-5 seconds. The team followed up this defeat of Harvard by another victory over Dartmouth at Hanover with a score of 31-24. Captain Herzog finished first while in addition Technology runners captured fourth, fifth, sixth and eighth places.

On November 10, the annual Fall Handicap meet was held with over 100 entries. Sheldon '21 and Capt. Wright '18 were the high individual point winners the former scoring 12 and the latter 11 points. A week later the N. E. I. C. A. A. meet was held over the Franklin Park course with Technology coming out on top over the other entries. Teams from Bowdoin, Williams, Tufts and Boston participated. Halfacre finished first while Dorr '20, Owens '21, Carpenter '21 and Dyke '20 were the first of the other institute runners to finish.

On November 24th the team journeyed to Van Courtlandt Park, N. Y., for the I. C. A. A. A. meet, and succeeded in taking fourth place. The other teams finished in the following order, Pennsylvania, Cornell, Columbia, and Dartmouth. Halfacre finished third and McCarten fifth. This meet finished the cross-country season and it had proved to be a very successful one considering the fact that many of the old men had been lost.

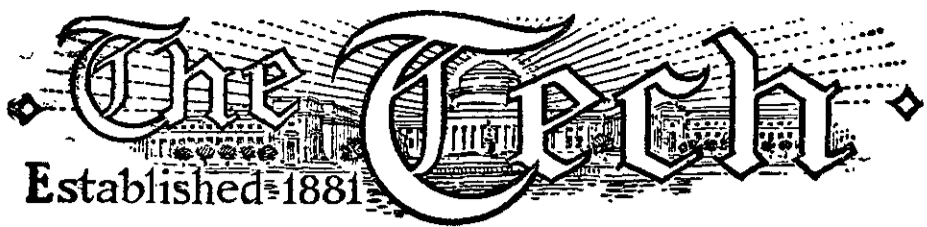
The indoor track season was opened with the B. A. A. games on February 3, the preliminaries having been held on January 12. Technology emerged from this meet with a 100 percent score being victorious in every one of her events. The "long" relay team defeated Dartmouth, in a closely contested and fast race. The "short" team took Harvard into camp by an easy victory, while the freshmen likewise were defeating the Holy Cross yearlings. The Naval Aviation team from the Institute held up Technology's clean record by winning over the Ambulance quartet from Allentown, Pa.

On February 16 the freshman track team, led by Capt. Sheldon journeyed to Lowell for the annual meet with that school and emerged with a 46-31 victory. Captain Sheldon placed first in the 35-yd. hurdles. This is the first time in seven years that Technology has won this event. Lowell succeeded in winning the relay, running high jump, and 300 yard dash, while all the other events went to Technology.

Following this, the annual Sophomore Freshman track meet was held on the board track with the Freshmen winners. Several good records were made and the meet was in general a success.

The first meet of the spring was the Sophomore-Freshman cross-country on April 6th with the freshmen victors, 34-27. The time of the winner was 15 minutes, 35 seconds. McMahon '20 finished first, followed by Dorr '20 and Stone '21. There were forty entries.

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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

R. H. Smithwick '21.....Assistant Night Editor

SATURDAY, JUNE 1, 1918

BE SURE TO COME BACK

THE summer will develop many temptations to enlist, but remember "BE SURE TO COME BACK." The old story may have lost its force, but every day brings added proof that Technology men who have remained to finish their course have been of vastly greater service to their country than the men who have enthusiastically left school to jump into anything available.

HAPPY THOUGHT FOR THE DAY.

IT is authoritatively stated that the Library of the Institute spends more of its appropriation actually for books than any other Library, public or college, recorded in the Boston Transcript's library department, 96.3 per cent.!

We would say that this is a poor time of the year to burn midnight oil in an automobile.

Tell us, if a man working in one of those fourth floor drawing rooms loses five pounds per hour, how can the turkish bath men keep on making money?

The Tech regrets to announce the resignation of Kenneth Roman '20 from the position of Night Editor. Roman will undertake his new duties immediately as Statistics Editor of the 1920 Technique, after two years of faithful service on The Tech.

In regard to exams, how much must you depend upon the leniency of those who correct them?

EMPLOYMENT MANAGERS TRAINED IN COLLEGES

(Continued from page 1)

Other applications have been received in such numbers as to necessitate a third course, which will be arranged soon. The shipbuilders throughout the country are increasingly aware of the value of scientific employment management.

Each shipbuilding company who sends a representative to these courses is re-

imbursed at the rate of \$6 per day for each person in attendance, for the period which he spends at the course.

SCHOOL FOR ENGINEERING OFFICERS AT HOBOKEN, N. J.

(Continued from page 1)

istered technical school and should be on file at the President's office. For any additional details application can be made to the Civilian Director, U. S. Navy Engineering School, Stevens Institute, Hoboken, N. J.

Any man, graduates or under-graduates, who are registered in the draft can enroll with the proper enrolling officer by securing from the draft board a letter of release which in all probability can be obtained for this purpose,

LETTER FROM REV. G. C. GIBBS

The following is a letter sent to Mr. Rollins by George C. Gibbs who is in charge of the Technology Bureau of the American University Union in Paris.

Paris, April 17, 1918.

My dear Mr. Rollins.

I hope you will not find it strange that I have not rendered an account to you for the expenses of February and March. Mr. Lansingh, however, has informed me that he has written you that he is closing up the books of the Tech Bureau to turn over to me. These items of mine, he now has and they will be included in my report as soon as he turns the books over to me.

In January, there were 7— in February 20, and in March there were 45 and to date for April there have been 35. This list represents some men who have been in here perhaps as often as once a week. We are asking the boys to register if they come in at least that often.

I have purchased for the Bureau the necessary things, including a percolator coffee pot and sugar, also condensed milk with which we may have coffee up here after lunch or dinner. This has proved wholesome and homelike, and as the weather has been very damp, we have been obliged to have open wood fires in the Bureau and this adds to the cheer.

Very shortly my new bulletin should reach you. Sincerely yours, (Signed) George C. Gibbs.

provided the men are not included in the current draft quota.

Special provision has been made for the continuance of the school with proper material by a Navy regulation which permits under-graduates of the Freshman, Sophomore and Junior classes in recognized engineering schools to enroll in the Navy with a rating Seaman 2nd Class and continue their courses at the Institutions where they have matriculated.

COLLEGE MEN SHOULD ADVOCATE UNIVERSAL MILITARY TRAINING

Would Result in Hardening the Muscles and Coordinating Mind and Body.

By Lieutenant-General S. B. M. Young, U. S. A. Retired.

Today allegiance and devotion to our country require a declaration of loyalty, and while I firmly believe the love of country and the patriotic spirit of our people are as strong as they ever were, yet much of the spirit is dormant because of the general apathy due to a lack of realization of the gravity of our national situation.

With Universal Military Training and Equal Service established by law, militarism would be impossible. Military Training of every American boy between the ages of eighteen and twenty-one, for one year, would not interfere with his career but would result in hardening the muscles and coordinating mind and body; and, also, it would teach habits of punctuality and neatness, prompt obedience and respect for proper authority, and make a more valuable and successful citizen.

The charge has been made that we are losing our national ideals and that we have forgotten how to obey—if we ever knew. If we are to overcome the onus of these charges, we must do so through training our young men in the ideals which have been handed down to us from an ancestry which was willing to fight for them, sacrifice for them, and when need arose, to die for them.

Military training will teach the

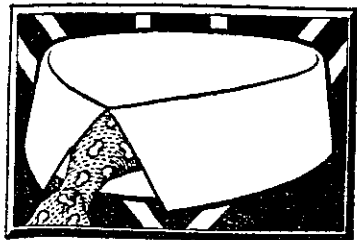
(Continued on page 4)

Advertisement for Dixon's Eldorado pencils, featuring an image of a pencil and text: 'A great American Achievement', 'DIXON'S ELDERADO', 'The master drawing pencil', 'Endorsed by experts everywhere', '17 degrees', 'At all stationers'.

Advertisement for Simplex Wires and Cables, featuring text: 'SIMPLEX WIRES AND CABLES', 'A STEEL TAPED CABLE REQUIRES NO CONDUIT', 'IT SAVES TIME AND MONEY', 'Get our booklet', 'SIMPLEX WIRE & CABLE CO.', '201 DEVONSHIRE ST. BOSTON', 'CHICAGO SAN FRANCISCO'.

Advertisement for Gilmour, Rothery & Co. Insurance, featuring text: 'Gilmour, Rothery & Co. INSURANCE', 'Safety Engineering Fire Protection and Prevention Corporation Insurance', '120 Water Street BOSTON', '100 Williams Street NEW YORK CITY'.

Advertisement for Tech Men, featuring text: 'TECH MEN', 'Get your school colors to "Brighten the corner where you are"', 'M. I. T.', 'Cardinal and Gray Banners Pennants Table Runners Pillow Tops Neckties', 'TECHNOLOGY BRANCH'.



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Spies and Lies

German agents are everywhere, eager to gather scraps of news about our men, our ships, our munitions. It is still possible to get such information through to Germany, where thousands of these fragments—often individually harmless—are patiently pieced together into a whole which spells death to American soldiers and danger to American homes.

But while the enemy is most industrious in trying to collect information, and his systems elaborate, he is *not* superhuman—indeed, he is often very stupid, and would fail to get what he wants were it not deliberately handed to him by the carelessness of loyal Americans.

Do not discuss in public, or with strangers, any news of troop and transport movements, of bits of gossip as to our military preparations, which come into your possession.

Do not permit your friends in service to tell you—or write you—"inside" facts about where they are, what they are doing and seeing.

Do not become a tool of the Hun by passing on the malicious, disheartening rumors which he so eagerly sows. Remember he asks no better service than to have you spread his lies of disasters to our soldiers and sailors, gross scandals in the Red Cross, cruelties, neglect and wholesale executions in our camps, drunkenness and

vice in the Expeditionary Force, and other tales certain to disturb American patriots and to bring anxiety and grief to American parents.

And do not wait until you catch some one putting a bomb under a factory. Report the man who spreads pessimistic stories, divulges—or seeks—confidential military information, cries for peace, or belittles our efforts to win the war.

Send the names of such persons, even if they are in uniform, to the Department of Justice, Washington. Give all the details you can, with names of witnesses if possible—show the Hun that we can beat him at his own game of collecting scattered information and putting it to work. The fact that you made the report will not become public.

You are in contact with the enemy today, just as truly as if you faced him across No Man's Land. In your hands are two powerful weapons with which to meet him—discretion and vigilance. Use them.

COMMITTEE ON PUBLIC INFORMATION
8 JACKSON PLACE, WASHINGTON, D. C.

George Creel, Chairman
The Secretary of State
The Secretary of War
The Secretary of the Navy
United States Gov't Comm.
on Public Information

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TRACK SEASON

(Continued from page 1.)

The Technology two-mile relay team carried off high honors on April 27 when they won the two-mile open collegiate relay race held at the Pennsylvania Carnival. This year's carnival took place at the athletic field of the University of Pennsylvania and consisted of a series of track and field events which were open to different colleges and schools throughout the country. The most important of the track events are the long relay races, of which the two-mile is one.

The relay team not only won the two-mile event but by the same race carried away the Meadowbrook Challenge Cup. This is the first time that the Institute relay team has been victorious in the annual carnival and the Saturday race accordingly placed it for the initial time in the championship class.

Technology easily captured the New England Intercollegiate track meet for the second consecutive year, when it rolled up a score of 74 points on May 18 at Tech field, against 25 of its nearest rival, Brown. Holy Cross and Bowdoin were tied for third place with scores of 13, Amherst gaining 8 points, Williams and Wesleyan each 6, Boston College 5 and Tufts and Middlebury, 2 points each. The absence of Dartmouth College as a participant in the meet was badly felt, but nevertheless the competition was keen throughout all the events, especially in the flat races.

The track season closes to-day with the I. C. A. A. A. meet in which Technology has several entries.

U. S. SHIPPING

(Continued from page 1)

drill and fire drill much impressed the visiting officials.

Speaking of the training of men without previous sea experience for sailors, firemen, coal-passers, cook and messmen, Director Howard told the conference that within a month it will be possible to train 3000 men a month on the training ships based at Boston. In addition to the present training fleet, receiving ships will be placed at Newport News and New Orleans, a training ship at San Francisco, and a training station at Seattle.

"By the middle of July it will be necessary to enroll men for merchant marine training at the rate of 4000 a month," said he. "In the next 15 months 600 new ships will be put in commission on the west coast alone, and 1000 new men will be needed each month for a year and a half for these vessels alone."

To facilitate the training of officers, it was decided to abolish the class system so far as possible in the Shipping Board navigation and marine engineering schools, so that experienced men may join the schools immediately on qualifying, thus making themselves available for service in the merchant marine all the quicker.

On Friday evening Henry G. Vaughan, supervisor of sea training, entertained those attending the conference at dinner at the Tavern Club.

HARVARD ALUMNI BULLETIN DISCUSSES THE MCKAY FUND

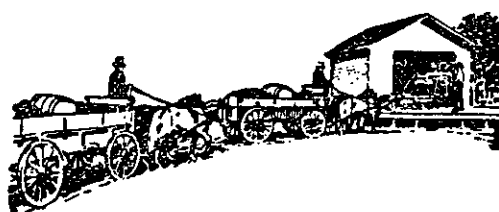
Extract From Article by Professors Hughes and Smyth.

As members of the departments concerned in the cooperative agreement with the Institute of Technology, which has been declared illegal by the Supreme Judicial Court of Massachusetts we have been deeply interested in the opinions expressed in the Bulletin, by our colleagues, as to what course the University ought to adopt in its future teaching of applied science in these and other departments. We are, therefore, glad to have an opportunity to present our views on this matter.

To eliminate needless discussion, it may be assumed that the University must establish its own separate school of applied science to be organized and administered like any other school of the University; and that the University's control of the finances, faculty, instruction, and students must be clear beyond question.

Careful consideration of the articles published in the Bulletin convinces us that there is no dissent whatever on the part of any University professor of Engineering or Mining from the opinions expressed that the basis of any sound plan of instruction in applied science must be "a solid foundation of real knowledge of the fundamental principles of science and mathematics." A study of the history of our own late schools and of the programs of the departments of Engineering and Mining in this University will show very clearly not only that we heartily approve of the principles set forth by our colleagues, but also that we have endeav-

Origin and Development of Hydraulic Cider Presses



Back in 1867 the idea of a hydraulic press for expressing cider from apple pomace was conceived by Mr. A. Q. Tucker, founder of the Hydraulic Press Mfg. Co. From this idea has been developed a line of cider and fruit juice presses now embracing over fifty distinct models and sizes

along with a complete line of auxiliary equipment such as evaporators, vinegar making machinery, filters, etc. These presses range from small hand presses to big commercial mills of 400 bbls. per day capacity.

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Our catalogs Nos. 22, 33, 37 and 82 illustrate and describe our cider, grape juice, wine and olive oil presses and contain much information of value on conserving the waste in fruits, especially apples and grapes.

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GORDON MCKAY FUND

(Continued from page 3.)

ored to put them into effect. We believe that students should be trained to think, to investigate, and to express themselves clearly and well, and that courses of study should be planned primarily with these ends in view, and that the promotion of research should be given a position of prime importance.

We cannot, however, from the standpoint of engineering accept the opinion expressed by Dean Wheeler that, in order to fulfill Gordon McKay's behest, "to provide all grades of instruction in applied science from the lowest to the highest" requires "only relatively unimportant changes in the scientific departments of the University." There is a considerable recognized body of scientific principles and practice which may be called "engineering," which is not merely physics, chemistry, and mathematics; as well might it be said that medicine is merely biology and chemistry. We are all agreed that, in attempting to meet the demands of a rapidly expanding profession, superficial specialization in engineering courses has been overdone at the sacrifice of fundamentals and to the neglect of original investigation. The remedy obviously is not to eliminate engineering courses from our schools of applied science but to strengthen the weak places in our scheme of education. We are convinced, therefore, that our difference of opinions with some of our colleagues in the pure sciences are not fundamental, but largely if not wholly as to where certain work in engineering should be done. Our colleagues, as we understand them, believe that all the work ought to be done at Harvard Square; we believe that the first three years' work, more or less, ought to be done at Harvard Square, while the work of later years could to a large extent be more advantageously done at the Institute.

The plan for reorganizing the instruc-

tion in Engineering and Mining that we have in mind is, in a general way, as follows: The new school ought to be constituted, with its own faculty and administrative officers as the Law School or the Medical School. Students ought to be admitted directly from high schools and other secondary schools; and the admission requirements ought to be substantially the same as for Harvard College. Throughout their University careers, students should be in direct charge of the faculty of the school, should live in the College dormitories and participate fully in the life of the College. The work during the first two years ought to be practically identical for all men, and suited alike for the future engineer, chemist, or any professional scientific man. Indeed the engineering programs, in so far as they are prescribed, ought to be alike with slight exceptions for three years, and would consist largely of courses which may now be taken for a bachelor's degree in Harvard College; and for three years all students should work largely if not entirely at Harvard

Square. In the arrangement of these programs which ought to give the broad basis in pure science which we all desire, we should depend upon the instruction, advice, and assistance of our colleagues in the University departments of science and mathematics. Upon the completion of four years' work, the degree of Bachelor of Science ought to be awarded; and at this stage some would doubtless leave the school. Many would remain for a longer period of study leading to a professional degree in engineering or mining; and some of proved ability would stay for further study and research.

COLLEGE MEN SHOULD ADVOCATE UNIVERSAL MILITARY TRAINING

(Continued from page 2.)

young men in all stations that government is not an agency from which something is to be had, but an institution with first claim on them for the best they have to give.

It is a truly democratic ideal that every young man should prepare himself to a reasonable degree of efficiency to defend his country. Sectional feeling will gradually disappear before an ideal founded on service to the state by citizens of every locality. Only through service in a common cause may we hope to unite the widely and instill into them the conviction that Democracy and Service are one.

If every young man knew that every other young man with whom he comes in contact has been through the same intensive course of military training, each would have greater respect for the other—would have greater respect for the rights of the other and all together would have greater respect and love for our country.

When the sons of the wealthy, the sons of the laborer, the sons of the poor and the sons of the immigrants, live together, train together and serve their country together, only then and not before will we become a truly democratic people.

The establishment of obligatory military training for all our young manhood will create a furnace of patriotism that will fuse the varying elements of our population and prove to the world that we are a mighty nation, able and ever ready to uphold and defend the great democratic principles of equal liberty and justice to each and every loyal citizen within the jurisdiction of our government.

Patriotism is love of country. If we won't fight for it, we don't love it, and if we don't love it, we won't fight for it.

In conclusion, I believe it to be our duty to provide a permanent system of Universal Military Training for the youth of our country. It will stimulate the people of every section, and, in time, America will become the "Great Mother of Liberty," to a posterity which will rejoice in her, even as we, today, rejoice in the heroic achievements of those hardy pioneers who gave to the World the spirit of Independence "which, please God, shall never die."

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