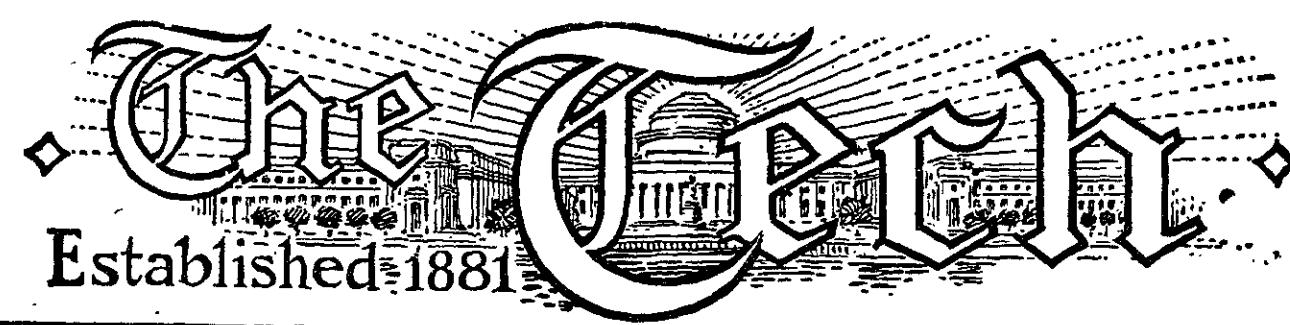


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CAMBRIDGE, MASS., FRIDAY, FEBRUARY 8, 1918

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GOOD MEETS FEATURE TRACK TEAM SCHEDULE

Coach Kanaly Plans to Have Institute Represented in I. C. A. A. A. A., Naval Militia, and N. E. I. A. A. Meets

TO BE SEVERAL CLASS MEETS

In a tentative program for the various Technology track team for the coming spring as outlined by Coach Kanaly, the I. C. A. A. A., the N. E. I. C. A. A., and the Naval Militia meets are among those planned. The freshmen will run against Lowell, and the Sophomores will have a meet with the Lynn English High School February 11.

The events in the meet with Lynn will consist of a twelve-hundred-yard relay (each man running three hundred yards), a twenty-five-yard dash, a three-hundred-yard run, a six-hundred and a one-thousand-yard run. Besides these, there will be a running high jump, a standing high jump, a standing broad jump, and a twelve-pound shot-put.

Following that, the freshmen will class with Lowell High in their annual meet on February 16 at Lowell.

The annual Naval Militia meet will be held at Hartford, Conn., the Meadowbrook meet will be run off on March 9th or 16th. Furthermore, Coach Kanaly hopes to enter men in the annual Pennsylvania Carnival Relay games on the 26th and 27th of April, and in the Relay Championship of America. The annual dual meet between the freshmen and the sophomores here at Technology will be held as usual this year.

Negotiations for the entrance of Technology into the I. C. A. A. A. and the N. E. I. A. A. meets are now pending. The former is to take place on May 31 and June 1, and the latter May 24 and 25.

Track practice is being held regularly. Some of the men have, however, been dropped from the work and are required to take up the freshman calisthenics again.

A call will soon be made for the junior freshmen who wish to substitute track-work in place of the regular physical training.

PROF. DOTEN BUSY WITH SHIPBUILDING PROGRAM

Professor Doten of the Engineering Administration Department at the Institute is very actively engaged in looking after the details connected with many phases of the shipbuilding program of the United States.

He is in charge of a large corps of men who are watching, recording and charting the progress of this important work.

On broad sheets before him, he has each week an outline, sketching the amount of hull construction which should be delivered figured on the basis of the yards making good, and the men working on a general average standard. To his office, each week, is submitted the actual plans of hull construction and his task is to match the actual building with the amount of building which the men should furnish with the facilities at hand. All this may no doubt seem child's play. To the shipwrights along the Essex and the Mystic, who by the providence of God, figured to lay a keel in one month, and to launch the completed ship at the

(Continued on page 2)

MANDOLIN CLUB

There will be an important rehearsal of the Mandolin Club in the Caf tomorrow at 1.00 o'clock and all members are requested to be present.

An Article of Interest to
Junior Freshmen Will be
Found on Page 3.

T. C. A. BOOK EXCHANGE PROVES A BIG SUCCESS

Over Eight Hundred Dollars Worth of Books Sold This Year

The Technology Christian Association is one of the societies at the Institute whose work and extent of activities this year has been curtailed greatly, due to the existing conditions. The organization, however, has been of aid to many of the men because of the book exchange which it has maintained this year. At the beginning of this term more than three hundred books were sold through this agency, and more than eight hundred dollars worth of books and supplies have been sold since last September. This means a saving of about forty percent on the average to the students.

Further than maintaining the book exchange the T. C. A. has not been able to extend its labors. Next week there is to be a meeting of the Advisory Board of the organization when the various plans for the remainder of the year will be discussed.

Mr. Cushman, the general secretary of the T. C. A., has just returned from a three months' stay at Camp Devens where he was acting in the capacity of building secretary of Y. M. C. A. but, number twenty-four.

KOMMERS SMOKER

Annual Entertainment Will be Given This Evening

The annual mid-year Kommers Smoker which is scheduled to be held this evening in the main dining hall of the Walker Memorial at 7.45 o'clock is being given principally for the purpose of arousing enthusiasm among the entire student body in the 1918 Tech Show and serving as a real beginning of the work on the show. George Hutchings '18, who at present is in the naval aviation school here at the Institute, but who is yet fulfilling his duties as General Manager of the Show will be in charge of the event tonight. It is his present intention to announce the title of this year's Show, which it has been customary in former years to announce at the Fall Smoker together with the author, but on account of the uncertainty prevailing among all the student activities this year it has been impossible to follow the custom. Some time ago E. D. Harrington '18 was announced as author, but at that time the title had not been selected. Manager Hutchings will also announce the names of the lyric writers, the time for try outs, the date of the first rehearsal, and will give some specific information on the poster competition and the competition in connection with the stage department for freshmen and sophomores.

Three of the star performers of last year's show, "Charlie" Parsons, "Dick" Harrington and "Johnnie" Coldwell, have been secured to furnish entertainment at the Smoker this evening and, in addition to these, the Banjo Club and the Glee Club quartet will serve to make the evening an enjoyable one for all present. The management guarantees to those attending that there will be no dearth of entertainments for with all the local talent mentioned above there could not possibly be any additions of professionals that

(Continued on page 4)

NEW LOCOMOTIVE, 100 FEET IN LENGTH, PUT IN SERVICE

The greatest steam locomotive in the world has been put into service by the Baldwin Locomotive Works. It is so gigantic that its boilers had to be made flexible at three different joints so that the locomotive could turn around a curve. It is more than 100 feet long and weighs some 450 tons. Twenty-four driving wheels, each as high as an average man, afford its traction.

NEWS MEETING

There will be an important meeting of all men connected with the News Department of THE TECH next Monday, February 11, at 12 o'clock in THE TECH office.

ENGINEER NEEDS BROADER EDUCATION

—SLICHTER

More General Knowledge Necessary to Fit Him for Position in Public Life That He Deserves, Says Columbia Professor

SIX-YEAR COURSE ADVISABLE

Last Wednesday the student branch of the American Institute of Electrical Engineers held a combined meeting with the Boston Section of the Institute and the American Society of Mechanical Engineers, at which Professor Walter I. Slichter, of the Columbia University, gave a lecture on "The Present Trend of Technical Education." The talk showed the position of the electrical engineer in the public world of today, his importance in matters of public interest and the education of the modern technical man.

The meeting was opened by President Costelloe of the Student Branch, who introduced Dr. Kennelly of the Institute as the chairman of the meeting. Dr. Kennelly told of the need of such a paper as the speaker of the evening was to give, because the electrical engineer of today does not seem to hold the position in the world that he should on account of his knowledge and importance.

"The engineer of today does not receive less education or poorer education than the lawyer or the doctor, but he does not hold the same position in public life or in politics as those men of the other professions do. The war is wholly dependent on the engineer, but the engineer does not hold the seat of honor and power in Congress or the other branches of government; corporations are often entirely operated by engineers, but the presidents and managers are never engineers. This does not necessarily mean that the engineer is not well paid or well treated, but that he does not hold a position at all comparable to his importance.

"This now public position of the engineer is due to two causes. The first of these is the narrowing education which he has received while at college, where the engineering subjects are very extensive and to general subjects very limited. Some colleges, Columbia, as an example, have instituted a six-year course, having the first four years composed almost wholly of broadening subjects, but the greater part of the institutions preparing men for the engineering professions give their students an intensive course containing only engineering subjects. The second cause for the low position of the engineer is the narrowing influence which surrounds him after he has left the college. The active work of an engineer keeps him apart from the rest of the world while the office activity of the doctor or lawyer brings him into contact with men of all classes and exerts a very broadening influence over him."

To relieve this situation the best manner in which to broaden the mind of the engineer is by the introduction of more general subjects into his college training. The six-year course has been one method of doing this, another being the graduate school. The engineer who has graduated from the general college and then specialized in engineering at a graduate school such as is being conducted at the Institute is much better fitted to hold responsible positions.

Professor Franklin of the Institute pointed out some of the absurdities in the present use of mathematics in the engineering profession. He said that mathematics was being used as a mechanical means of solving calculations,

(Continued on page 4)

NOTICE TO JUNIORS

Today the Junior Picture will be taken on the steps of Walker Memorial. This is the picture that will appear in the Technique 1919 and the Board urges every Junior to be present.

On Saturday, February 16, there will be a Junior dinner in the Walker Memorial.

TECH GRADUATES SHOW UP WELL IN ENGR. CORPS EXAMS

Out of 35 Men Receiving Commissions, 14 Are Institute Alumni

The Technology graduates who received commissions as lieutenants in the Engineer Corps of the Regular Army have completed their training and received their orders of assignment. The list is as follows:

William A. Clark '17, Course XI, to 303 Engineers, Camp Dix, Wrightstown, N. J.; Hubert W. Collins '17, Course I, to E. O. T. C., Camp Lee, Petersburg, Va.; Philip N. Cristal '17, Course I, to 309 Engineers, Camp Zachary Taylor, Louisville, Ky.; Harold V. V. Fay '14, Course IX, to 318 Engineers, Camp Fremont, Palo Alto, Cal.; Frank B. Hastie '17, Course I, 303 Engineers, Camp Dix, Wrightstown, N. J.; Samuel L. Kuhn '17, Course I, 4 Engineers, Camp Green, Charlotte, N. C.; A. C. Lieber, Jr. '16, Course I, 309 Engineers, Camp Zachary Taylor, Louisville, Ky.; William Lohmeyer, Jr. '17, Course I, 4 Engineers, Camp Green, Charlotte, N. C.; Harold J. McDonald '17, Course I, 318 Engineers, Camp Fremont, Palo Alto, Cal.; Walter L. Medding '17, Course XV, 318 Engineers, Vancouver Barracks, Washington; Thomas K. Meloy '17, Course XV, E. O. T. C., Camp Lee, Petersburg, Va.; Oscar Peterson '17, Course I, 310 Engineers, Camp Custer, Battle Creek, Mich.; Frank C. Rogers '17, Course I, E. O. T. C., Camp Lee, Petersburg, Va.; Henry E. Strout '17, Course XV, 319 Engineers, Camp Fremont, Palo Alto, Cal.

These men were ordered to report at Fort Leavenworth, Kansas, on November 10. After a six weeks' intensive course they were assigned to duty. Rogers is still at the Base Hospital, at Fort Leavenworth, on account of an injury to his spine.

These men received their appointments as the result of examinations taken last June, for which they were prepared in a special course by Professor Spofford. The number of Technology men among the successful candidates was unusually large. With regard to the standing of the Institute men, the Chief of Engineers made the following statement:

"Of all the technical schools whose graduates have taken the examination, the Massachusetts Institute of Technology has by far the best record, for out of the 35 men who were appointed as a result of the examination this year, 14 were graduates of that institution, and the percentage was especially great amongst those who made the best percentages in the examination."

A. L. NELSON '15 RECEIVES COMMISSION IN NAVY

Arthur Lindsay Nelson of Boston, Tech '15, has received a commission in the civil engineering corps of the navy. He has been chief electrical engineer with the Charles H. Tenney Company. He is national treasurer of the Alpha Tau Omega Fraternity, a member of several organizations and was prominent in college. Of the 300 who started examinations in Washington only 10 received commissions. Nelson is now at Annapolis, where he is undergoing intensive training. His home is at 30 Mellen street, Ashmont, where he has lived for 23 years with his parents and sister.

COMPETITION FOR POSITIONS ON THE TECH TO BE HELD FOR JUNIOR FRESHMEN

In order that the junior freshmen may have a chance to get a position on the News Staff of The Tech this term it has been decided to open a special competition for these men and it is requested that all who would like to enter this competition report at The Tech office in the Activities Building on Massachusetts Avenue, next Wednesday, February 13, at 1.05 o'clock.

The work of the men entering this competition will be to write news articles for the paper. In several weeks an election will be held and those men who have shown sufficient ability will be given positions on the News Staff. Candidates unsuccessful in this election

COAL SHORTAGE WILL NOT CLOSE INSTITUTE

Location of Government Schools in Buildings Gives Technology Preference Over Other Institutions in Securing Fuel

ECONOMY NECESSARY HOWEVER

The recent cold wave which caused Boston's supply of anthracite coal to dwindle away with a corresponding decrease in receipts of shipments on account of the blocking of transportation facilities has forced the Institute to resort to the use of soft coal to supply the necessary heat and power for the buildings. The Institute normally uses between forty-five and fifty tons a day but by careful conservation has reduced this amount to less than forty tons per diem with a prospect of less in case of necessity.

That the Institute may be forced to suspend school because of the general fuel shortage is very improbable, since the fact that the government aviation schools are located here makes it possible for coal to be secured in preference to the other institutions, business as well as educational, who are not engaged in government work, such as Technology is performing. It is entirely reasonable to assume that as long as there is enough coal to supply the business houses of Boston that the Institute will share in the supply, for the least delay in the work of the aviation students would prove in the least very detrimental to the preparations now under way for training the aviators as quickly as possible.

Although the Institute is reasonably sure of a limited supply of coal that does not signify that care and economy will not be practiced, but on the other hand, shows that there is a greater need for conservation. In following this out the heat in the dormitories has been shut off every night, and the excessive temperatures which prevail at times in some parts of the buildings have been avoided by careful regulation of the indicators. Similarly the electricity has been watched and less lights are visible at night than there are ordinarily although the searchlights on top of the buildings have been kept burning as a safeguard to the aviation schools.

NOMINATIONS FOR PROM COMMITTEE DUE MONDAY

All nomination papers for the Junior Prom Committee must be handed in to the Information office not later than Monday, February 11, at 5.00 o'clock. The nomination papers must be signed by at least ten Juniors who have paid their student tax. The Prom Committee will consist of five men.

The elections will be held on Friday, February 15, in the main lobby. Because of the fact that the Alumni Council has given its unanimous approval of all existing activities including Junior Week, the Junior Prom is a surety. Although no definite plans have been made for the affair, it will not be as elaborate as has been the case in past years, owing to present conditions.

COMPETITION FOR POSITIONS ON THE TECH TO BE HELD FOR JUNIOR FRESHMEN

will still have a chance to make the staff this term, however, as a second election will be held later in the year. Members of the News Staff will be eligible next year for the positions of Night Editors and Assistant Night Editors and these positions lead up to Managing Editor, Editor-in-Chief and finally General Manager.

Although this competition is mainly for the junior freshmen, nevertheless it is open to any other students who wish to enter it. On account of the number of men leaving the Institute to enter war service, there is an excellent opportunity at present for rapid advancement of men who prove themselves capable.



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MANAGING BOARD

Paul C. Leonard '17.....Chairman of the Board
Arthur E. Farrington '19.....Circulation Manager
Donald D. Way '19.....General Manager

ADVERTISING DEPARTMENT

R. A. St. Laurent '21.....In Charge

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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

C. B. Capps '20 K. Roman '20

FRIDAY, FEBRUARY 8, 1918.

ATTENTION, JUNIOR FRESHMEN!

We wish to call to the attention of the new freshmen the opportunities for experience in business and journalism offered by The Tech. This publication is the official news organ of the Alumni and undergraduate body, and has a record of continuous service since 1881. You freshmen, no doubt, will be kept fairly busy with your studies, but there is always room for one activity, and the comparatively small amount of time required to participate in an activity is far exceeded by the benefits derived from it. You certainly cannot afford to attend the Institute and devote all your time to the required curriculum as there are certain phases of training which the curriculum cannot give you, and you must strengthen yourself in these phases by some outside interest. If you wish to enter any activity, now is the time, and if journalism is your hobby, The Tech extends a cordial welcome.

THE WOOP-GAROO

TUESDAY, there entered with the new class a freshman of considerable importance, who went by the alluring and amazingly harmonious appellation of Woop-Garoo. Almost unheralded, he walked into the main lobby long before classes opened, and attracted almost immediate attention by his humorous remarks and criticisms of Institute life. Everywhere he went throughout the day he left behind him a string of serious minded Technology students engaged in the undignified occupation of laughing.

Seriously, we were much surprised to find that a set of industrious individuals, believing they saw the need of a humorous periodical at the Institute, had brought forth a new creation with the view of filling this demand. They are to be commended for their enterprising venture, and the degree of success which it attained. For a long time Technology has felt to some extent the want of a publication similar to the Harvard Lampoon or the Dartmouth Jack o' Lantern—something that would bring into Institute life a note of fun and humor which the other papers do not strive to do to any extent. The Woop-Garoo has made a start in that direction, and promises to do even better in its next monthly issue. We suggest that every effort be made not to allow it to degenerate into a mere high school joke paper, as might easily be the case if great care is not exercised, in the selection of material, and eliminate some of the other crude stories which appeared. There is much about it that might be criticised, but on the whole we think it very good for a first attempt. We hope the editors will not use it as a medium to lower by ill-timed jokes the standing of other activities, and suggest that in future issues they disclose their identity, that any comment, favorable or otherwise, may be made to the right parties.

The Tech takes this opportunity to welcome a new contemporary into the field of undergraduate publications.

The Tech announces the resignation of Arthur J. Giuranovich, Jr., '18 as editor. Mr. Giuranovich has served this publication faithfully for over three and one half years, and it is with regret that we are forced to dispense with his much valued services.

Everyone should attend the Kommer's Smoker to be held in the Walker Memorial, Friday, February 9, at 7.45. Show your interest in the Tech Show.

We are waiting patiently for signs of activity among some of the professional societies which seem to have gone forth from this life.

"As white as snow"—especially some of the snow in the Boston streets.

HOW GORDON STEWART '14 WON THE CROIX DE GUERRE

In a recent issue of THE TECH there appeared the announcement of the death of Gordon Stewart '14, in France. The following letter telling of his experiences which was written to the editor of the Worcester Gazette by one of his friends and which appeared in that paper recently is reprinted for the interest of his Technology friends.

Sir:—I want to tell you the story of Gordon Stewart, until last spring a student at Boston Tech. He then joined an ambulance corps which went to France. I may not have the facts absolutely correct but as I remember them his story was something like this: One dark night he was sent alone with his ambulance over a shell-torn road to bring in a wounded man. When he reached the man, he found a great piece of shell lying across him. The mud was deep and Gordon being a little fellow had all he could do to lift the heavy piece of shell and in doing so dropped it upon his arm and broke both bones of his forearm. In spite of this he loaded the man into his ambulance and drove back to his hospital. The Fureca French, gave him the "Croix de Guerre." He had an awful time with his broken arm. It was set twice. The last time it had to be cut open for a large part of the distance between his elbow and wrist and the bones wired together. When he recovered he immediately went back to his ambulance and bravely went to work again and did wonderful work at Verdun.

In some way unknown to me he contracted cerebro spinal meningitis and his friends have just been informed of his death. He was the champion swimmer of the Boston Tech team and I think was considered the best diver in America among the amateurs. As I know him he was full of pluck and courage and was never daunted by any obstacle. He was the son of Mr. and Mrs. Edward J. Stewart of Brookline to whom the news comes as a terrible blow. As the war goes on such cases will not be rare but unfortunately this blow comes very bitterly to Rufus S. Woodward.

TWENTY MEN AT MACHIAS LAST SUMMER ARE NOW IN SERVICE

The extent to which the men who took the complete military training at Camp Cunningham last summer have gone into national service will interest readers of The Tech. The following list is of those men whose present addresses are on the files of the M. I. T. War Service Auxiliary: corrections and additions are earnestly requested.

W. S. Bailey '19, Co. E, 301st Inf., Camp Devens; John H. Bates '20, Signal Corps, Avia.; Roderick L. Bent '19, U. S. N. R. F.; Herbert W. Best '19, Officers' Training Camp, Camp Upton, Yaphank, L. I.; Malcolm C. Brown '19 83rd Squad, Royal Flying Corps, Canada; Edward H. Clarkson, Jr. '16, taking exams for Regular Army Engineer Corps; M. D. Conners '19, Training Camp, Camp Upton, Yaphank; K. M. Davidson '19, U. S. School Mil. Aero., Cornell, Ithaca; John M. DeBell '17, 2nd Lt. Batt. A, 16th F. A. Ft. Leavenworth, Kan.; Henry S. Derby '19, Battery A, 101st Regt., A. E. F., France; E. G. Farrand '19, E. O. C. N. A., Prov. Co. No. 1, Watervliet Arsenal, Watervliet, N. Y.; G. F. French '19, Cadet, Army Aviation; Frederick J. Hopkinson '19, Priv. Avia. Sect. Sig. Corps (awaiting orders); Clyde C. Jones '19, Sergt. 324th Field Sig. Bn.; H. G. Killam, Sergt. 25th Engineers, A. E. F.; Roger M. Leland '19, Co. H, 302d Inf., Camp Devens; P. C. Leonard '17, Recorder, Army School of Aviation, Cambridge; R. R. Litehiser '19, Sergt. Batt. A, 322d Field Artillery; C. Edmund Little '19, Cadet, U. S. Army School Mil. Aero., Princeton; R. O. Lowengard '17, Officers' Training Camp, Camp Upton, Yaphank, L. I.; Donald Cary Pero '19, Student Aviator, U. S. Nav. Air Station, Naval Base, Va.; Frank P. Reynolds '19, Officers' Training Camp, Camp Upton, Yaphank, L. I.; C. E. Thomas '19, Royal Flying Corps, Canada; A. E. Tuttle '18, School for Aeroplane Inspectors, Navy Aviation School, M. I. T., Cambridge; Alfred L. Warren '19, Corp., Co. C, 302d Mach. Gun Bn., Camp Devens; F. A. Washburn '18, Instructor in Gunnery, School of Naval Aviation, Cambridge; H. L. Wirt '18, Officers Training Camp, Camp Upton, Yaphank, L. I.; K. A. Wright '19, Priv. O. D., Gun Div., Trench Warfare Sec., Drop Bomb Work.

The following list is of men who have left Technology: the Auxiliary is very desirous of receiving the present addresses of such of them as are in service F. W. Boley, C. L. Bond, B. C. Burnham H. P. Frease, O. F. Freeman, L. E. Hartman, G. A. Irwin, H. C. Jones K. F. Rodgers, G. M. Wurzelbacher. Information for the correction of these lists may be sent to the Auxiliary, 491 Boylston street, Boston.

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COLUMBIA—After a conference of the student committee with the authorities it was decided that the 1919 Junio Prom will not be held. Conditions imposed upon the college by existing war conditions caused this decision. The only activities on the program now are the basketball games, cane sprees, and the Glee Club concert.

RHODE ISLAND STATE COLLEGE—The annual Military Ball was held last week. In accordance with the desire to save fuel, the dance was started at 5.30 o'clock and lasted till 10. Spreads were given at the fraternity houses until 11 o'clock. At the dance a drill was given by a picked company, and promotions in rank were announced.

COLUMBIA—All departments of Columbia University will be closed on Mondays from January 21 to March 25, despite the exemption privilege granted that institution by Dr. Garfield. Monday classes will be transferred to Saturday.

PRINCETON—Those men in the Navigation Course at Princeton who receive the ten highest marks in the mid-year examinations will be commissioned as ensigns and will be put in the Transport Service. Three months of actual service in the navy will be required, after the theoretical course at Princeton is completed, before the men will assume their duties.

PENNSYLVANIA—With the prospect of some modification in the Athletic Council's ruling requiring athletes to take military training three afternoons a week, minor sports are again flourishing. Although no definite plan has been adopted, Dean McClellan expects that the matter will be satisfactorily straightened out.

YALE—War will bring about the adoption of the suggestion advanced by Jim Ten Eyck, Syracuse rowing coach, that college crews do not carry their own shells to the scene of regatta. Yale now has decided to use shells found at institutions where it will row, and the idea, it is thought, quickly will spread to other colleges.

ILLINOIS—The co-eds of Illinois have adopted a uniform similar to that worn by the students in the aviation schools. The khaki-colored coats with their brass buttons, and the service cords on the hats present an especially military appearance.

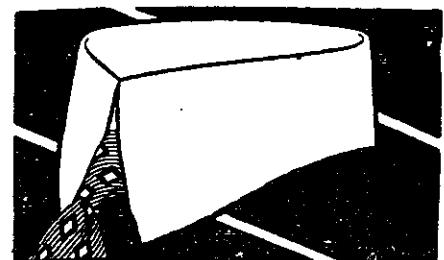
YALE—Yale University is planning to hold many boxing tournaments this year. Boxing is one of the principal sports taught to men in training for commissions, and therefore the authorities are deeply interested in arousing as much competition and interest in these tournaments as possible.

PROF. DOTEN BUSY WITH SHIPBUILDING PROGRAM

(Continued from page 1)

end of so many following months, these weekly charts worked out by Professor Doten make clear at once the weak and inefficient yards where, with men and material, they have failed to deliver the goods, and the A-1 yards where the men are able to do the standard and a little over.

For the information of those who may feel that our shipping program is a rather indefinite, hazy, hit-and-miss undertaking, it may be of interest to know that the amount of shipping to be delivered per month has already been carefully figured out, and prepared for up to close of 1919, and before long the 1920 program will also be under way.



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**Technology Men
in War Service**

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated. Address any information of this character to the Managing Editor, The Tech, Massachusetts Avenue, Cambridge, Mass.

Class of 1885
LYMAN SISE, Pvt., 1st Motor Corps, Mass. State Guard.

Class of 1892
JOHN W. HALL, 1st Lieut., 102nd M. G. Bn., A. E. F.

Class of 1895
HARRY J. SHEAFFE, Capt., U. S. R.

Class of 1896
CHARLES E. STAMP, Capt., Small Arms Div., Ord. Dept., Washington.

Class of 1897
HARRISON W. SMITH, Field Amb. Service.

Class of 1898
PAUL F. JOHNSON, Aeronautical Mach. Engr., Naval Aircraft Factory, Navy Yard, Phila.

Class of 1899
M. H. SMITH, Co. C, 302nd M. G. Bn., Camp Devens.
HERBERT H. RIDDLE, Red Cross No. 4, Paris.

Class of 1902
FRANK HILL SMITH, Constr. Div., Sig. C.
GEORGE W. RICE, Pvt., M. G. Co., 71 N. Y. Inf.

Class of 1904
J. A. SPILMAN, Lieut. Comdr., Constr. C., Navy Dept., Washington.

Class of 1905
SCOTT G. RUNNELS, Capt., Med. R. C., Base Hospital, Camp Sherman.
G. S. RADFORD, Lieut. Comdr., Constr. C., Navy Dept., Washington.

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STUDENT ACTIVITIES AT INSTITUTE OFFER JUNIOR FRESHMEN DIVERSION FROM STUDIES

Many of the members of the new junior freshman class undoubtedly intend to engage in one of the several Institute activities, either of the athletic or social aspect, but other than by means of the "Tech Bible" there is no way of enumerating these activities except in The Tech. These activities give to the student body an opportunity to engage in varied diversions from the regular course of study often obtaining very helpful experience in drama, journalism, music and business. The social events, such as banquets, smokers and dances aid in relieving the strain of intensive study. The athletic activities, such as track, swimming and hockey are aimed to keep the student physically fit to pursue his course of study.

Probably the most important activity at the Institute of a journalistic nature is The Tech. This is a bi-weekly publication, the official organ of both the Alumni and undergraduates, containing all the current news and the topics of general interest to Technology men, which is published by the students. It has a circulation of about three thousand copies, several hundred of which are distributed at the Institute itself, the rest being sent to the Alumni. The publication of The Tech entails three departments, the News, Circulation and Advertising. The work of the News Department consists of obtaining the news for each issue; this department is discussed more completely elsewhere in this issue. The men in the Circulation Department look after the subscriptions about the Institute, and also take care of the Alumni circulation by means of correspondence. The Advertising Department interviews the various advertisers in and about Boston and secures the new "ads." All of these departments are open to the junior freshmen or any others at all interested in journalistic or business work. The half yearly subscription to The Tech is \$1.50 and the price for each copy is three cents. All business work is done at the office in the Activities building on Massachusetts Avenue.

The track team is the prominent athletic activity at the Institute, and is one of the few things in which Technology competes with other colleges. An excellently built and well kept track and field is continually at the disposal of any of the students, especially those representing the Institute in one of the many teams. The work is generally divided into cross country running, indoor and outdoor track contests, in addition to dual meets with eastern colleges. The excellence of the team's work may be well demonstrated by the recent meet with Harvard University, in which the Technology contingent was victorious. The junior freshmen are

HENRY M. ATKINSON, JR., 2nd Lieut., C. A. C.

STANWOOD R. BARROWS, JR., Instr. Nav. Constr., Navy Dept., Wash.

FREDERICK BERNARD, Lieut., Q. M. C., Camp Devens.

THEODORE W. BURKHART, Jr. Nav. Constr., Ind. Dept., Navy Yard, Boston.

PAUL D. CHILDS, Lieut., Jr. Gr., Asst. Nav. Constr., Navy Dept., Wash.

WILLIAM A. CLARK, 2nd Lieut., Co. A, 303rd Engrs., Camp Dix.

JOSEPH J. CLARKSON, 2nd Lieut., C. A. C.

CHARLES L. OBURN, Ensign, Asst. Nav. onstr., U. S. N. R.

EDWARD L. COCHRANE, Lieut., Asst. Nav. Constr., Navy Yard, Phila.

JOHN R. COFFIN, Cadet, Avia. Sec., Sig. E. R. C.

CHARLES W. COLBY, Lieut. Jr. Gr., Asst. Nav. Constr.

permitted to substitute track work for the regular calisthenics by consulting with Coach Kanaly at the track house.

"Technique" is the year-book of the Institute, published by a board of Juniors, its object being to preserve in compact form the records of the graduating class and of the activities of the Institute. The book is introduced to the Institute at Technique Rush during the first part of Junior Week, when twenty copies autographed by President MacLaurin are fought for by those who have the necessary pluck.

The Technology Monthly is a magazine of scientific interest which is published by the students. It contains many articles of undergraduate interest, and this year it has devoted much space to stories concerning the progress of airplane construction. In addition it has columns containing cartoons and jokes.

The Tech Show is one of the big events of the year and is held during Junior Week. It is written, acted and produced entirely by Technology students. The undergraduates compose the music and also form the orchestra. Performances are given in Boston and Northampton, all profits going to war benefits. Competitions are opened for the various departments, such as east, chorus, ballet and music.

The Combined Musical Clubs, comprising the Glee, Mandolin, Banjo and Guitar Clubs, vary in membership from ten to twenty-five students. Competitions for the playing positions or the managing department are open to freshmen.

Wrestling has taken a prominent place in the athletic activity of the Institute, several teams being made up from the different classes. Meets are arranged with other eastern colleges.

A freshman hockey team has been organized this year but no games have yet been played, due to a lack of interest in that sport. This activity offers a good opportunity for the junior freshmen, as the team needs the support of several men.

Swimming has taken a very important place this season as in other years, contests being arranged with other colleges in the east. At the last meet the team tied with the Annapolis Naval Academy, thus breaking their record of wins for three years. Several places on the team are uncertain and junior freshmen have an opportunity to fill those positions.

Crew work will start within several days, and contests have been arranged with other colleges.

The Technology Orchestra, which plays at the Tech Show, is made up of about twenty-five members. Rehearsals are held weekly at present but later on they will be increased to two or three times a week in preparation for the show.

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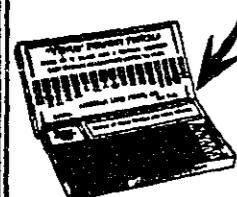
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CLAIM BETTER USE OF COAL

Products Is Solution of Present Fuel Problem

The Smithsonian Institution issues the following:

At the present moment, when the fuel situation forces itself upon the attention of every householder in the country, any discussion of the coal problem that goes into the causes at the bottom of the present unstable and unsatisfactory state of affairs should receive a careful and serious hearing. Especially so, if at the same time this discussion is constructive and points the way to a rational development of the vast coal resources of the Nation so that they will not only meet adequately the demands of a growing industrial development but also will be firm and strong enough to stand the shock of untoward events. It is evident that their present development fails now the test of world emergency.

Such a discussion is to be found in a short bulletin by Chester G. Gilbert, entitled "Coal Products: An Object Lesson in Resource Administration," just published by the United States National Museum, and constituting the third paper of the series, "The Mineral Industries of the United States," in course of issue by the division of mineral technology of this institution.

The author at the outset points out the magnitude of the coal resources of the United States and the utter dependency of national welfare upon their proper development. Yet with more coal than is found in any other country, or indeed on any other continent, this country has long been dependent upon foreign sources for such essential products made from coal as dyestuffs, fixed nitrogen, and many important drugs; and is today, with the first pinch of war stress, uncertain whether the fuel needs of the American home can be met even during the coming months. With characteristic lack of analysis, the American public has never faced these shortages as phases of a single problem, but has first become alarmed at the dye shortage, then excited over the nitrogen dearth, and is now shivering in anticipation of a meager fuel supply.

To explain the present coal shortage by transportation congestion or labor difficulties is to offer a superficial cause. These dilemmas, of course, are the concrete means through which the trouble makes itself felt, but back of them stretches a far-reaching failure to work out a proper development for America's greatest resource. The trouble is not that insufficient coal is mined and transported but that the present output is inadequately used—its full commodity value is not obtained. In general, our coal could be made to go a third further in meeting the Nation's needs.

The domestic fuel stringency is only one angle of the coal problem, but a very distressing angle for the average person. The trouble here is the fact that the demand put upon anthracite, or hard coal, which is practically limited in occurrence to a few counties in Pennsylvania, is out of all proportion to the size of the deposits. The homes of the country must begin to turn aside from the luxurious and costly anthracite and look more to our vast bituminous resources, which are widely distributed, favorably situated, and can not so readily be tied up by concerted strikes or so easily held down by traffic congestion. But bituminous coal is dirty, and its widespread utilization as such would be a long step backward, retarding progress in civic betterment as well as involving a 30 per cent waste in commodity bulk.

This waste, however, which appears in the guise of smoke, is in reality convertible into gas, tar, ammonia, benzol, and an endless number of other by-products, such as dyes, medicines, and explosives. It is therefore possible by proper shaping of economic policy to remove the disproportionate drain on the limited supply of anthracite, to turn the wasted third part of bituminous coal into useful products, to eliminate smoke from our cities, and to so distribute the sources of domestic fuel supply as to alleviate, if not entirely solve, the labor and transportation perplexities of the present situation.

These desirable results are already in course of natural development, but progress is disastrously slow, impeded as it is by lack of proper stimulus and excess of misdirected pressure. The advance so far has been solely in the metallurgical field. For converting iron ore into metallic iron, a substance known as coke is needed. This is made artificially from coal by driving off its volatile portion, its smoke, so to speak. Almost a seventh of our coal is made into coke, so great are the demands of the iron industry, but two-thirds of this coke is produced without regard to saving the valuable products driven off during its manufacture. Therefore we face the alarming conclusion that only about 4 per cent of the

coal mined in the United States yields its full value to society.

Progress in coal utilization depends fundamentally upon the production of more coke. At present the situation is limited by the needs of the iron industry. The quantity and type of coke thus far produced has been determined by its metallurgical use. Sporadic attempts to apply metallurgical coke to household purposes have met with failure and placed coke in an unfavorable light. Coke must be made of such kind as to be suitable for domestic use. This can be done; and the accomplishment is an urgent necessity. Domestic coke, in reality, will be artificial anthracite.

There is room in our industrial system for a greatly changed utilization of coal; in short, for coal to be used in the form of anthracite, artificial anthracite (domestic coke and steam-engine coke), metallurgical coke, gas for illuminating and power purposes, benzol for automobile engines, and at the same time made to yield a sufficiency of nitrogen, dyestuffs, explosives, and other coal-product chemicals. There is present need for all these products. The problem is to make the necessary readjustments.

The solution to the whole coal problem, in short, does not consist in cutting down industrial activities to meet present coal output, nor in circumscribing the scale of economic life to fit present misdirection of coal resources, but lies in working toward an industrial situation that will both permit and demand a widespread treatment of bituminous coal so as to yield on the one hand a smokeless fuel, an artificial anthracite so to speak, suitable alike for the home and the factory; and on the other a host of by-products essential to the industries of the Nation.

ENGINEER NEEDS BROADER EDUCATION

((Continued from page 1)

whereas its real significance is as a method of reasoning for solving engineering problems.

Mr. Hurley of the Shipping Board spoke of the schools started by Dean Burton, in which each man receives such instructions as will make him a perfect master of the work to which he is particularly adapted. This plan is directly in opposition to the broadening idea, but in the present war conditions, the call for men is so urgent that some intensive specializing is necessary in the shipping board.

Several other men spoke on the subject under discussion and the meeting was adjourned.

KOMMERS SMOKER

((Continued from page 1))

would create more amusement among the students.

Coach Duncan, a graduate from Amherst, and last year's coach will be the chief speaker of the evening. He will outline and explain the characters of the show particularly for the benefit of the freshman and those who hitherto have shown no interest in the Show, but who wish to try out for it this year in order that they may have an idea of just what the parts will be. Several men connected with past Tech Shows as well as all the members of this year's management will be present to give information about the needs of men for this year's performance and what has been accomplished in the way of meeting these needs up to the present time as well as what the prospects are for a successful performance this year.

Refreshments and smokes will be served during the evening.

GOVERNMENT WILL OPEN SCHOOL FOR SIGNAL WORK AT UNIVERSITY OF VERMONT

The United States government has made arrangements for the opening of a school of instruction in the signal work of the army at the University of Vermont, beginning Feb. 15 and ending June 30 next.

Men between the ages of 18 and 45 years are eligible for this branch of the service, the basis of pay being \$30 per month. The course will cover rudiments of all kinds of electrical and visual communications, including radio or wireless and Morse telegraph operators, the location and repair of faults in telephone switchboards and telegraph and telephone lines. There will be vacancies in the non-commissioned ranks to which deserving men will be promoted.

Notice

The Tech Show would like to meet the author of "Cupid Raves," which appeared in a recent issue of the "Woop-Garbo." The author is requested to see Professor Rogers, Mr. Marks or Oscar Mayer. If so desired, his identity will not be divulged.

DUTY OF MEN UNDER AGE IS TO REMAIN IN COLLEGE, SAYS BAKER

In a message to the undergraduates of Yale University that was made public on Jan. 22, Secretary of War Baker said that the War Department is especially anxious not to disturb the educational system of the country, and he advises those who are under age to remain in college. The Reserve Officers' training camp, he believes, is directly fitting them for efficient service in the Army. His message read, in part: "I suppose there is scarcely a boy in any college in the country who has not very anxiously addressed to himself the question, 'What can I do?' A number of college presidents have done me the honor of asking me what is the answer to the question, and I have had to confess each time I thought there was no general answer. I think this, though it is more or less clear to those of us who look at it from the outside: First, that the country needs officers. There is no preference of college men for officers, but because a man has had academic opportunities he has to start with, presumptively at least, a better foundation upon which to build the learning which an officer must have, and therefore to a very substantial extent the country desires its college graduates and its college bred men of suitable age in the training camps for officers. To the extent that the men in college are physically or otherwise disqualified, or to the extent that they are too young to meet the requirements of the Department, it seems quite clear that in the present state of the emergency their major usefulness lies in remaining in college."

MEN IN WAR SERVICE.

((Continued from page 2))

IRVING FINEMAN, Lieut., Jr. gr. Asst. Nav. Constr., Navy Dept.

R. K. FESSENDEN, 1st Lieut., Barracks 508, Co. D, 303rd Inf., Camp Devens.

G. FULTON, Lieut., Constr. C., Navy Dept., Washington.

WALTER C. T. GARTNER, Plane Insp., U. S. Nav. Avia. Det., M. I. T. E. L. GAYHART, Lieut., Constr. C., Navy Dept., Wash.

L. GORFINKLE, Ship Draftsman, 4th Cl.

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EMIL A. GRAMSTORFF, Lieut., Jr. gr., Asst. Nav. Constr.

WALTER HARRINGTON, Btry. E. 374th F. A., Am. Lake Co., Washington. C. W. HAWES, 23rd Engrs., Camp Laurel, Md.

E. H. HEATH, JR., Pathological Lab., Base Hospital, Camp Devens.

G. W. HENDERSON, 4th Cl. Ship Draftsman, U. S. N.

WILLIAM B. HUNTER, 1st Cl. Pvt., 1st Co., O. T. C.

E. H. HUTCHINSON, Ensign, Cadet School, Harvard Univ.

WILLIAM F. JOHNSON, Lieut., Co. B, 13th Inf., Camp Fremont, Cal.

ARCHIBALD B. JOHNSTON, 2nd Lieut., Carriage Div., Ord. Dept.

AUSTIN KUHNS, 1st Lieut., Ord. Dept., U. S. R.

WILLIAM G. LASKEY, 1st Cl. Elec. U. S. N. R. F.

E. LEVI, 4th Cl. Ship Draftsman.

MERRILL C. LIEBENSBERGER, Q. M. Sgt., Btry. D, 311th F. A.

T. S. LINCOLN, Pvt., Co. C, 301st Engrs.

HAROLD G. LITTLE, Hospital Ap.

ALLYNE C. LITCHFIELD, Motor Insp., U. S. N. A. Det.

prentice, Nav. Hosp., Chelsea.

WILLIAM LOHMEYER, JR., 2nd Lieut., Engrs.

R. V. LOWE, Seaman, U. S. N.

H. G. MANN, Insp. of ballistics, Ord. Dept., Union Metallic Cartridge Co., Bridgeport, Conn.

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