

PROPOSE COURSE IN RADIO ENGINEERING

New Course to be Offered to Seniors Provided That Sufficient Number Respond to Call

TO BEGIN WITH SECOND TERM

Acting upon the request of Major-General Squier, Chief Signal Officer of the U. S. Army, that the technical schools of the country train about five hundred students for service in the Signal Corps, the Institute has proposed to establish a course in Radio Engineering for those students who desire to enter the Signal Corps provided that there are at least ten students willing to take the proposed course. However as the request was made only a few days ago, no definite action has been taken by the faculty with regard to the new course, its possibility of being established in the Institute curriculum resting entirely upon the number of students who express their willingness to take it.

It is open only to fourth year men and in all probability will be accepted in lieu of part of the requirement for graduation. The action taken by the faculty in deciding that a student must have completed at least two-thirds of his senior course makes it almost a certainty that a man taking the special course in addition to part of his regular work will be enabled to receive his degree. It is expected that the students will be enlisted as members of the Signal Corps and be placed in Class 5 of the draft list as being in the service of the U. S.

If it is found to be practicable to offer the course, work will begin February 1, the beginning of the second term, and will continue for fifteen weeks, ending a few days before the final examinations are started. The amount of work required in the course is twenty-eight hours a week. Twenty-four of these will be spent in class room, lecture and laboratory exercises, and the remaining four in signalling work. At the end of the course each student is expected to be able to send at least fifteen words a minute.

Professor A. E. Kennelly of the Electrical Engineering Department will in all likelihood be in charge of the new course, in the event it is established, but if other work will interfere with this arrangement the course will be offered in conjunction with Harvard, as the latter is also considering the feasibility of such a course. All students who are interested are requested to see Professors Kennelly or Lawrence immediately.

A. I. E. E. TO MEET TONIGHT AT LECTURE IN INSTITUTE

Effect of War on Electric Service is Subject of Paper.

The American Institute of Electrical Engineers will hold a meeting this evening at 7.45 o'clock in Smith Hall, room 10-250, at which a paper will be presented by Mr. William B. Jackson on the subject "Effects of War Conditions on Cost and Quality of Electric Service." This is the first of three national meetings, on the same subject, the other two of which are to be given at New York and Chicago, and is the accomplishment of an idea inaugurated last year by the officers of the A. I. E. E. This scheme was adopted in order that those who could not attend the New York meetings might be informed of the proceedings of the institutions, and its promulgation depends upon the success of the meeting held here tonight.

The subject under discussion at the meeting deals chiefly with the effect of war conditions upon electric light and power service, but the principles relate in their broad application to every branch of public utility service. The different items in which these effects are apparent will be enumerated and then considered in three ways, namely: the probable trend under normal conditions, the present status under abnormal conditions, and suggestions as to how these effects might be reduced or entirely nullified.

NEW WALKER MEMORIAL RIFLE RANGES OPEN

Gallery Open Two Hours Daily to Members of Rifle Club

The new rifle range in the Walker Memorial has been completed for several weeks, but owing to the fact that other organizations have been using it, it was impossible until now to arrange a definite schedule for its use by the Technology Rifle Club. The hours for shooting have been so arranged that the rifle club members will have the free use of the gallery every afternoon between four and six o'clock to between 4.00 and 6.00 o'clock. The amount of time allotted to the club will be increased as much as is shown to be necessary by the number of men reporting for practice.

All shooting on the range will be under the observation of a club member, who will give all necessary instruction, have charge of the distribution of ammunition, and keep records of the scores. Each member must obtain a membership card from the range-officer in charge in order to identify himself at any time when he wishes to use the range. The membership cards are now at the range and will be given out to those members who are properly accredited.

The Technology Rifle Club is an organization affiliated with the National Rifle Association, its purpose being to promote interest in shooting at the Institute. The idea of the club is not to train a few men to become experts, but rather to give each member a chance to develop his marksmanship to the greatest degree possible.

POWER PLANT TESTED

Students Make Boiler Tests in Institute Station

Last Wednesday evening started a boiler test, for about eighty students of Courses VI, N, XIII, and XV option 3, which comprised the operation of the entire power plant of the Institute buildings. The men were divided between eight shifts of ten men each, each shift going on duty for a period of eight hours, so that the boiler run was completed by Saturday morning.

In each shift the men were assigned numbers to correspond with the work which they were to perform, with the exception of two men, who were given special duties as circumstances required. The work which each man performed formed a link in the complete operation of the plant so that each student received a like amount of responsibility.

The number one man of each shift weighed the feed water which was supplied to the boilers, recording the total gallons per hour and the total amount of water during the complete shift. Number two man supplemented the work of the first by assisting in the weighings and recordings and checking his co-workers' results. After four hours' time these two students changed with numbers five and seven to relieve the monotony of the work.

Number three's duties were rather numerous for he had to read the counter on the automatic coal weighing machine

(Continued on page 3)

NICHOLS 2 LEADS IN THE DORMITORY BOWLING LEAGUE

With a percentage of 889, the Nichols 2 team holds first place in the Dormitory Bowling League. Holman 2 has the second highest percentage of 778 and Runkle 2 and Atkinson 3 are tie for third place, with percentage of 667. The high averages are held by Starr and Malley, who have 93.4 and 91.2 respectively. The highest game, 447, was rolled by the Atkinson 3 team, and the high score, 113, was made by Marvin Pierce.

A twenty-five dollar suit has been offered by M. Poliner as a special prize to the man who rolls the three highest strings in regular league games. Wyer is ahead so far with scores of 106, 104, and 42. The men in the Dormitory feel that the league has been a great success in developing a spirit of good fellowship among the residents.

ALUMNI ADVISORY COUNCIL CONVENES

Financial Reports and Outlines of Future Policies Given by Representatives of More Important Student Activities

ALL ACTIVITIES PROSPEROUS

The Alumni Advisory Councils on Undergraduate Activities held a meeting last Friday afternoon to determine the position of the undergraduate body with reference to the athletic, social, and other activities of the Institute. The various activities were represented by men who were in constant touch with them, the Institute Committee also being present.

Mr. Robbins was appointed chairman of the meeting, and he called the assembly to order by requesting Mr. Van Kirk to outline the work of the undergraduate activities for the benefit of the Alumni present. The latter stated the cause of the meeting as the desire of the Faculty and Alumni to get an idea of the way in which the war affected the activities and their financial standing.

Mr. Rolfe, of the Advisory Committee on Athletics, stated that the complete budget for this season was estimated to be about \$3,375, including practically all branches of athletics. The total amount available to meet this is about \$3,400, derived from the student tax and events of last year including the Tech Show. Mr. Rolfe voiced the opinion that athletics were not seriously affected by the war and favored the normal continuation of all activities as necessary to student life at the Institute.

L. M. Dalton '19, representative of the Combined Musical Clubs, said that on account of railroad conditions it had been decided not to take a midyear trip, but that otherwise the regular schedule of concert would in no wise be affected. The financial condition of the musical clubs is satisfactory.

The Tech Show will take place as in other years provided there is a Junior Week, was the statement made by F. A. Washburn '18, representing that activity. During Junior week the trip to Northampton, the most profitable performance given, is made, and therefore the Show's existence is dependent upon. The action of the Faculty upon that event. The proceeds of the Tech Show will go to the American University Club of Paris. Financially, there is no question but that the activity is one of the most successful of the Institute.

P. M. Dinkens '18 reported the Institute and Budget Committees as per-

(Continued on page 3)

SPECIAL COURSES OFFERED AT THE FRANKLIN UNION

Realizing the enormous demand for trained men at the present time, especially along technical lines the Franklin Union of Boston has arranged a new series of classes beginning this month. These classes are held mornings and evenings and are arranged for men who are occupied during the day or night and who have had no opportunity to further their education. All those interested in these courses should address Walter B. Russell, Director, The Franklin Union, Berkeley and Appleton Streets, Boston, from whom more detailed information can be obtained regarding the dates and hours for the courses and the required fees, which are small. Among these special courses are the following: Principles of Aviation Engines, Military Sketching and Map Reading, Marine Engineering, Automobile Engines, Gasoline Engines, Mechanical Drawing, Sheet Metal Drafting, Architectural Working Drawing, Boiler Operation and Firing, Special Firing for Operators, Steam Engines, Special Electricity, Surveying computations and Office Practice, Theoretical and Applied Hydraulics, Advanced Reinforced Concrete Design and Expert Watchmaking.

CHEMICAL SOCIETY TO HEAR TALK ON INDUSTRIAL RESEARCH

Election of Officers Will be Held During Friday

The next meeting of the Chemical Society is to be held Friday evening at 8.00 o'clock, when Mr. Weidlein, the assistant director of the Mellon Institute of Industrial Research, will give an illustrated talk on the work of that institution. The late Professor R. K. Duncan was always desirous of bringing about a closer cooperation between the industry and the pure science, and it was to secure such cooperation that he founded the Mellon Institute. His plan is to interest the industries in the investigation of some feature of their business, to establish a fellowship, and to pay a competent man to devote his time to study and investigation of that industry in the Mellon Institute laboratories. The plan has worked exceedingly well and many valuable results have been obtained. Among these may be mentioned the development of the "Arkady" yeast food, and a new method for the smelting of copper ores. The Northeastern Section of the American Chemical Society has been invited to attend this meeting, and, for this reason, the lecture will be given in Huntington Hall, Rogers Building.

The election of officers for the ensuing year will also be held on Friday. The polls will be open from nine o'clock in the morning until five, near Dr. Talbot's office. The following is the list of nominees: for President, H. J. Kaiser and C. L. Nutting; for Vice-President, L. B. Smith and L. C. Kelsey; for Treasurer R. G. Mosserop and L. J. Goldstein; for Secretary, D. K. Webster and Hyman Selya; for Program Committee (vote for two), A. C. Atwater '20, Aaron Tushin '20, Maurice Goodridge '19 and E. F. Perkins '19. The results of the election will be announced at the meeting in the evening.

DEAN BURTON BACK

Returns From Trans-Continental Tour of Inspection

Professor A. E. Burton, Dean of Technology, is just back from a second trip that practically bounded the United States. He has been inspecting the schools for Deck officers that have been established under his direction for the U. S. Shipping Board, these schools being the suggestion of Henry Howard, an old student of the Institute under Professor Burton.

Altogether twenty-five schools were visited, it being unnecessary to include in this trip the New England ones, of which there are ten or more, or those this side of Baltimore, of which there are four or five. The itinerary, which included leaving Boston on November 24, took in Norfolk, where a second school was established by Professor Burton and Newport News, where a new school was started. These schools are established where there are small groups of sailors and include quite a number of smaller places, while in the larger ones like Boston, New York and Baltimore, a number of successive schools have been conducted. Somewhere near two thousand deck officers are now ready for the vessels that are under construction for trans-Atlantic trade.

SENIOR PORTFOLIO PICTURES DUE TOMORROW

All material for the Senior Portfolio section of the 1919 Technique or appointments for sittings at Notman's, the photographer, must be on hand at the Technique office before Wednesday, January 9. Also all proofs must be returned to Notman before mid-years in order to go into the book. The Technique management wishes to make it clear to all eligible men that this is the last chance for entrance into the Portfolio section, which is practically useless unless complete.

ALUMNI TO HOLD ANNUAL BANQUET

Five Hundred Graduates of Institute to Hear Prominent Speakers During Yearly Meeting

PICTURES TO BE SHOWN

Several prominent speakers, one of international repute, have been secured to address the annual Alumni banquet which is to be held Saturday evening at 7 o'clock in the Walker Memorial. As this is the first Alumni dinner to be held in the Memorial, all of the Alumni are putting forth their best efforts to make the gathering a memorable one, and worthy of the man to whose memory the building has been dedicated, Francis Amasa Walker. As a result of this effort President MacLaurin, His Excellency The Chinese Minister V. K. Wellington Koo, and Alfred L. Aiken, President National Shawmut Bank, have been secured as principal speakers of the evening.

Owing to the stringency of conditions occasioned by the war and the necessity of conserving, it has been decided that the affair shall be a simple one instead of the banquet as has been the case in former years, and incidentally less formal. However there will be music and a moving picture exhibition of the military work at Camp Cunningham, the Technology summer camp, in addition to the addresses so the Alumni are assured of an enjoyable evening in the way of entertainment.

Judging from the recent sale of tickets it is expected by those in charge that over five hundred graduates from New York and the New England States will be present, including some who are in service and who are to be the guests of the evening. Francis R. Hart '89, Treasurer of the Institute and President of the Alumni Association, will preside.

THIRTY TECHNOLOGY MEN SELECTED FOR CAMP UPTON

Reserve Officers Training Camp Begins at Yaphank

Thirty Technology men were selected by the Institute to attend the Training School for Officers which began at Camp Upton, Yaphank, New York, on January 5. Hundreds of graduates and undergraduates of many of the colleges were recommended, but the list was cut down to 216. The following are the men who will represent the Institute: Richard O. Lowengard '17, Frank P. Reynolds '19, Norman D. Connors '19, Cecil B. Vaughan '12, Walter L. Whitehead '13, Allan Hay Means '13, Herbert C. Merrill '19, Edwin D. Jenckes '10, Donald D. Way '19, Norman Dawson '18, Arthur E. Gilmour '17, William B. Hunter '17, Edwin D. Pratt, Herbert W. Barrett '19, Milton S. Clark '09, Samuel M. Ellsworth, Frank T. Smith '13, Robert C. Heyl, Jr., '18, Osman S. True '20, John A. Parker '18, Alfred A. Johns '19, Alexander G. McAlister '18, Willard B. Newell '17, Hamilton L. Wood, John H. MacKinnon '14, Edgar L. Kaul, Frank P. Whelton, John T. Curran '19, Ralph S. Manning '08, John C. McLeod, Jr.

THERE WILL BE AN IMPORTANT MEETING OF ALL MEMBERS OF THE NEWS STAFF AT 1.05 O'CLOCK TOMORROW IN THE TECH OFFICE.

CALENDAR

Tuesday, January 8, 1918
7.45 P. M.—A. I. E. E. Meeting, Smith Hall.
1.15 P. M.—Pictures of 1921 Tug-o-War Team—Notman's, 3 Park Street.
Wednesday, January 9, 1918
6.00 P. M.—Catholic Club Meeting, "Caf."
Thursday, January 10, 1918
2.00 P. M.—Chemical Society Trip—Main Lobby.
5.00 P. M.—Orchestra Meeting "Caf."

The Tech

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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

Albert Kruse '20

R. H. Smithwick '21

TUESDAY, JANUARY 8, 1918

THE PASSING OF THE ARMY AVAITORS.

IT is with regret that we learn of the departure of the Military School of Aeronautics. The presence of the aviation students has lent a martial air to our buildings and we have felt a pride in the honor which the Government has been showing us by housing them at the Institute. At present we do not know where they are going from here, but we feel certain that we shall soon hear of them dropping bombs on Kaiserdom and ferreting out the work of the Hun. To each and every one of the future aviators we wish, "God speed."

THANKS.

WE thank the Technology Review most heartily for the splendid commendation which it gave in its July and November issues to The War-time Tech. The "boost" is sincerely appreciated and we hope that we will continue to meet with the approval of the Review. We will endeavor to maintain the high standard of usefulness which was set for us by the monthly issues of the Review. The job is a man-sized one, but we have undertaken it with confidence that we shall be able to fill the shoes left vacant by the discontinuance of these monthly issues.

One thing, however, will not be lost sight of. The undergraduate news will be as fully covered as heretofore and we hope that the student body will appreciate that we are trying to serve as the official organ of Institute activities, both Alumni and undergraduate.

You can now get your certificate of approval from the Faculty for enlistment in the Engineer Reserve Corps. The applications must reach the Chief of Engineers in Washington within a week. Get busy!

It is just a little more than a week before the mid-year examinations. Remember that it is just as easy to funk in war times as in any other times and start your plugging now.

There is some doubt in the minds of those who signified their intentions of taking the intensive course in Naval Architecture as to whether or not the course has met with the approval and cooperation of the Navy Department. A definite announcement from the Naval Architecture Department of developments to date would at least clear up the matter.

The Tech regrets to announce the resignation of W. Raymond McKenney '19 as Managing Editor and of Lawrence Winant '20 as Advertising Manager.

Inaugurating a new policy, which it has been deemed advisable to do at the present time, The Tech will from henceforth appear on Tuesday and Friday instead of on Monday and Thursday.

SPECIAL ORCHESTRA MEETING

There will be a special meeting of the Technology Orchestra Thursday afternoon at 5 o'clock in the "Caf," at which important business matters are to be settled. Since the Tech Show is about to start operations the orchestra must decide upon the pieces which are to be played at the performances, and put in considerable practice. In addition to the Tech Show, the orchestra has several

concerts in mind, and a decision must be reached concerning these.

Mr. Howard, who coached the musical program of the Tech Show last year, is expected to be present to give the players an idea of the work which is to be done this season.

The last concert given was at Ayer and both the players and the audience of draftees were well pleased with the performance. The management has planned similar concerts during the rest of the season.



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

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

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

Question Box Editor,
The Tech.

Dear Sir:

Will you please tell me just how much more work will be required each term of students taking the intensive courses proposed by the Institute? Will there be an omission of any of the courses now given? Yours truly,

D. M. C.

Under the present ruling, no more work will be required each term, and the present arrangement of 720 hours will continue. Some of the subjects will be omitted entirely, while others will be condensed. The "intensive" part of the schedule is the maintenance of work throughout the summer months.



In view of the fact that a large number of the seniors of the University of Michigan are leaving for military service, there is some agitation among the faculty members that the lead of Yale be followed in conferring a special degree with a military distinction for those men who have qualified in part for a degree. The matter will undoubtedly be referred to a committee in the near future.

President Butler, in his annual report to the Board of Trustees of Columbia University, recommended sweeping changes in the admission requirements, limitation being his chief point, and a re-classification of the students into junior and senior college groups. While preliminary requirements and entrance examinations would be retained in practically their present form, they would be used merely to form an eligible list, from which the faculty might select, on grounds of previous record, personality and promise, those students upon whom they think it worth while to expend their efforts and the resources of the college.

Although no announcements to that effect have yet been made, it is believed that West Virginia is negotiating to secure the services of Hugo Bezdek, former Oregon Aggie coach and present manager of the Pittsburgh Nationals, as director of their gridiron fortune for next season.

Bursar U. H. Smith of the University of Indiana, has been scouring Bloomington for coal in order that the buildings may be heated and classes conducted. The situation is somewhat relieved now, although last Saturday twenty-five tons of low-grade coal were all that relieved the emptiness of the University's bins.

Forty-seven men reported for practice at the first ski trip of the Dartmouth Outing Club, taken on the hills around Norwich. Plans are being made for the Winter Carnival events, and special meets will be held to determine the competitors for these events.

The recent nominations for officers of the freshman class of the University of Pennsylvania have been declared void and elections are not to be held until several hundred first year men have paid their class dues.

"Don't rest until the war is over," was Harry Lauder's advice in a thrilling speech recently delivered to Yale men. Lauder has just returned from the Western front, where he has been entertaining the British soldiers. "God says love your enemies, but he does not expect us to love his enemies," was his closing sentence.

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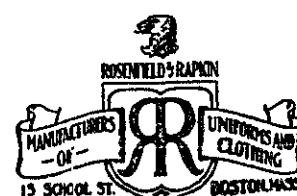
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ROSENFIELD AND RAPKIN

INSTITUTE PROFESSOR GIVES POWERFUL LENSES TO NAVY

Receives Letter of Appreciation From Navy Department

Recently one of the Institute's professors received the following letter in acknowledgment from the Navy Department, for the gift of some powerful "Zeiss" lenses. The glasses were sent in response to a call issued by the Navy for binoculars and is an excellent example of the sacrifices which Institute men are making other than that of actual service. The glasses will find prompt and important use in the sighting of periscopes in foreign waters. The letter:—

December 8, 1917.

Dear Sir:—

Your prompt and patriotic response to the NAVY's call for binoculars is most appreciated. The glasses will be very useful in the prosecution of Naval Observations until victory is won.

At the termination of the war, if possible, every effort will be made to return them to you, when it is hoped you will feel compensated for any evidence of wear, by the knowledge that you have supplied "Eyes for the NAVY" during a very trying period.

On behalf of the NAVY I wish to thank you most heartily.

Very respectfully,
(Signed) FRANKLIN D. ROOSEVELT,
Assistant Secretary of the Navy

BOILER TEST

(Continued from page 1)

every hour, weigh the ashes when the ashpit was cleaned out, and record the total weights for each hour and for the shift. In addition to this he had to take a sample of the coal each time that the large coal hopper on the weighing machine was filled by the supply chute, and take records of the time when ashes were removed, stokers started and stopped, etc.

Number four man took a sample of the gases going up the flue at varied intervals and analyzed every hour to determine the constituents of the wasted gases, recording the average components for the shift.

Number five man took records of each of the several draft gauges and of the boiler horse-power meters at intervals of a few minutes, and calculated the averages for each hour and the shift. After four hours this man changed with number one.

Number six man read the temperatures of the boiler steam for the several boilers and the temperatures of the air inside and outside the station every fifteen minutes, recording the averages.

Number seven man took feed water readings on the Venturi meter and the temperature of the return water in the basement at regular intervals recording the averages.

All the records and averages were turned in to number eight whose duty it was to estimate the efficiency of the plant during his shift.

By this method the students were given a working knowledge of the modern plant and its operation. This is a practical development of an idea of William Barton Rogers, that the best way of teaching a subject to students is by making them perform practical tests and take personal observations.

COAST ARTILLERY MATERIAL AT LIEUTENANT RUGG'S OFFICE

Proper Insignia Must be Worn on Left Sleeve of Overcoat

Coast Artillery material ordered for students may be obtained at Lieutenant Rugg's office, room 1-011, and should be called for immediately.

As the fleece-lined trench coat has been prescribed as the regulation coat for members of all Technology units, those cadets who wear the regulation olive drab overcoat must wear the proper arm badge on the left sleeve of the coat, in the same position as on the blouse.

Previous orders in regard to officer's insignia in the case of men who hold commissions in the Technology Regiment, and who are also in a technical R. O. T. C. unit but not officers in such unit, have been revoked. As all of the units are organized under the R. O. T. C. requirements, officers of the Infantry Regiment will wear R. O. T. C. insignia, but will attend instruction in Coast Artillery, Signal, Engineer, or Ordnance Corps as privates. During the drills of the last mentioned four courses these men will not attempt to exercise any authority or command by reason of their Infantry commissions, and to avoid the incongruity of officers with insignia in ranks, they will, during such drills, remove the shoulder insignia but make no other changes in uniform, collar or cap ornaments, or arm badges to attend either the drill with the regiment or with the technical units.

ARCHITECTURAL SOCIETY HOLDS SMOKE IN COMMON ROOM

Mr. Blackall Speaks on The Progress of Architecture

The Architectural Society recently held a successful smoker in the Common Room. The walls of the room were hung with banners and other ornaments, and colored streamers were arranged between the lights, which cast a reddish and very pleasing glow over the room. Tables laden with refreshments were placed about the room, and at one end stood a Christmas tree. While the refreshments were being consumed, Santa Claus issued forth from one of the walls and bestowed a few crackers upon some of the deserving members of the society. He was greeted with laughter and the contents of a few bottles of ginger ale. Mr. Blackall, a prominent Boston architect, sketched the progress of Architecture from its early stages and spoke about the effect of the war upon the profession, while Mr. Carleson gave a criticism on the sketches of a "Citadel of Peace," a problem just completed by the students.

"Architecture," said Mr. Blackall, "commenced with the constructing of buildings in an orderly manner, and the architect was a master builder. He did the work himself and was looked upon as an inferior person. There were no railroads at that time, and only one piece of work could be done at a time. The Renaissance marked the beginning of a divorce between the building and the builder, for the architect now supervised the construction and other men did the manual labor. About 1830 architecture became a business and continued as such until 1876. Great progress has been made since that time, steel, concrete, and terra-cotta having come into prominence, which were almost unheard of before this period.

"Each man must decide for himself what architecture means to him. An architect can hardly be called a business man or an engineer. He must not necessarily be able to draw well, although to be able to do this is a great asset, but he must have imagination and originality and must be able to carry out his ideals.

"The architect will have difficulty in keeping his place if he does not broaden out. He must be a business man and an engineer and he must associate with the builder and the engineer. In the next few years probably the only kind of work that the architect will do will be Government work; so he must look upon his profession as one which is large enough to cover any kind of construction work and must not hold back because the job is a little out of his line. It is natural that some men can do certain things better than other men can. It would therefore be profitable if architects could work together, but this cannot be accomplished because of the opposition to a union. Mr. Blackall recommended that the code of ethics be abolished and in closing gave a few words of advice. Aim high, let your light shine, and be a leader."

ALUMNI COUNCILS

(Continued from page 1)

forming their regular work without any breaks.

The Tech, represented by P. C. Leonard '17, has had a successful year, especially last summer, when the number of Alumni and undergraduates subscribing was increased to several thousand. Financially, The Tech has had no difficulties, the advertising department being above all efficient in its work. Although many of the officers have been forced to give up their work, due to war conditions or other reasons, great interest is being taken in the paper by the freshman class.

Technique 1919, reported by D. O. Mayer '19, believes to have reduced its expenses far below those of other years, without decreasing the excellence of the publication. Subscriptions have been slow in coming in, but the officers believe that their quota of a thousand will be filled on time.

G. M. Macheie '18, reporting the Technology Monthly, stated that although the periodical had not been very successful financially, the outlook was good, for he management hopes to increase the income by additional advertisements and subscriptions.

The Finance Committee, represented by R. W. VanKirk '18, has not been as active as usual this year. It therefore decided at the meeting to detail this Institute Committee as an agent to see that the Finance Committee be aided in every possible way, as it is an important part of the student activities.

The action of the Alumni Advisory Council is only advisory, but it is expected that it will be an important factor in any move taken by the Faculty with reference to the changing in status of any of the student activities.

INSTITUTE APPOINTS NEW MEMBERS OF FACULTY TO FILL GAPS MADE BY WAR

Demands For Technically Trained Men Continually Reducing Technology's Roll of Professors and Instructors

THE constant demands made by the Government and the industries allied to war for men technically trained are continually drawing from the instructing staff of Technology so that each succeeding list shows how closely in line with war work the teachings of the Institute are arranged.

PROFESSOR SEDGWICK TO ADDRESS RADCLIFFE STUDENTS

Will Speak on "Opportunities Which War Has Developed for Woman's Work."

On Thursday next, January 10, Professor W. T. Sedgwick of Technology is to address the students of Radcliffe on the general and interesting subject of "Opportunities Which the War Has Developed for Woman's Work."

Professor Sedgwick is in touch with the authorities in Washington as well as with the educational world, and he realizes the keen interest that exists on every hand in the speeding up of technical education. This means that not only is there demand for young men technically trained, but that places are being made which can be filled by young women; in fact, the ability of women to help in many newer fields has never before been so strongly indicated.

The matter is, it is true, mutual, and the health of the cantonment reflects that of the population surrounding it, but most of the imposed burden, especially in cities like Bridgeport, where war demands have practically doubled the number of residents, rests with civic authorities. Here the United States Public Health Service and Red Cross are ready to lend their aid, but the problem remains just the same a local one. It is here that men and women inspectors, public health nurses and laboratory assistants are a crying need. This is a field into which comparatively few women have ventured in the past, and here in the future the number is likely to be largely increased.

The need of trained sanitary workers will not cease at the coming of peace. It is true that some relationships will be returned to "ante bellum" order, but it may readily be that some of the problems of protection of the public will be even more urgent. The regular supply of sanitarians will be depleted, some of them actually lost, and many others diverted into collateral channels through interests aroused by their war work. On the other hand, there will be burdens of poverty and ill-health laid on the populace, and in the train of these diseases which war and the lowering of vital resistance promote, which will be heavier than ever. The field for workers in sanitation will therefore be increased and the needs even more pressing.

Professor Sedgwick, therefore, asserts that it is the duty of all educational institutions to speed up, and especially those which are in a position to help toward turning the technical work the men and women who are competent, so that the gaps may be filled which are already showing in the ranks of sanitary engineers, sanitary chemists and sanitary biologists and workers in public health in all its departments.

ARTICLES FOUND

The students who have lost the following articles may obtain them by applying to the office of the Superintendent of Buildings and Power, room 3-005, with a complete description of the missing things.

Two black and white silk scarfs; one brown woolen scarf; one black and green silk scarf; one pair fleece-lined gloves; one pair fur-lined gloves; one pair khaki woolen gloves; one pair gray mocha gloves; one case containing eyeglasses; one metal case; one pin with photograph; one gold cuff link; one Ingersoll wrist-watch; one pearl handle knife; one black handle knife; five bone handle knives; one English High School pin—year 1915; one gold ring with red stone.

COSMOPOLITAN CLUB

Early in next term the Cosmopolitan Club purposes to have a "Russian Night." The entertainment will be entirely in the hands of the Russian members of the club, and will include dancing, refreshments and addresses on Russia.

Resignations of assistants that are now to be chronicled are, from the department of Civil Engineering, H. V. V. Fay and F. B. Hastie, who are lieutenants in the Engineering Corps and B. M. McDill, who has similar rank in the Cavalry; from Biology, Elmer H. Health, Jr., who is in the Medical Corps, U. S. A., stationed at Camp Devens; from Physics, Joseph Del. McManus, drafted and A. A. Hardy, who has entered the army; from History, W. H. J. Kennedy, to be staff officer in the Reserve Corps and from Drawing, W. F. C. Gartner, who has gone into Government work.

Leave of absence has been given to an Associate Professor in Physical Chemistry, Frederick G. Keyes, who is Captain in the Chemical Section about to go somewhere abroad; while the leave of Professor Albert Sauvour, who is somewhere near the top in the technicalities of aviation materials and who is somewhere abroad, has been extended until the beginning of the next academic year. Albert S. Smith, superintendent of buildings and power, who received some months ago his commission as Captain in the Engineer Corps, has been called to service.

The appointments in the regular courses are all to the position of assistant, save Dr. Duncan MacInnes, now Research Associate in Physical Chemistry, has been appointed to serve in this capacity during the absence of Dr. Keyes, and Francis D. Everett has been named Research Assistant in Electrical Engineering. The following have been made assistants: In Civil Engineering, Paul Connor and Claire D. Acker; in Mechanical Engineering, Frank Olson E. B. Sewall and Philip O. Yeaton; and in Drawing, Clifford K. Rathbone.

In the school of Military Aeronautics, Professor C. H. Peabody resigned from the position of President of the Academic Board and Charles J. Emerson from that of Dean of the school. Professor C. B. Breed has been appointed President and J. C. McKinnon President's Assistant. In the different departments of this school the following appointments have been made to the position of Instructor: Engnes, George Davis, N. C. Macdonald, E. L. Fuller, E. P. Sheehan and W. R. Hennessey; Aerial Observation, H. C. Weber; Signalling, P. S. Haselton; and Military Drill (assistant instructor) R. F. Lewis.

In the Naval Aviation Detachment the following appointments to the position of Instructor have been made: W. Crepeau, F. Ellis, A. G. Hoelscher, J. H. McCain, W. Clifford and L. S. Ray.

CHEMICAL SOCIETY TRIP

The members of the Chemical Society are to visit the plant of the Gillette Safety Razor Company in South Boston on Thursday. Those who wish to take this trip should meet in the lobby at 2.00 o'clock. There are many things in this plant which should prove of interest to chemists; for example, the processes of electroplating and those of making the finished blade from the steel. According to the statement of one of the officers of the company, they have some automatic machinery for the handling of the blades which is unexcelled by any in the world. All of this was designed by a graduate of Course Five at the Institute.

CATHOLIC CLUB

The regular monthly meeting of the Catholic Club will be held on Wednesday, January 9, at 6.00 o'clock in the "Caf." It is planned to have Mr. Joseph Riley of the Massachusetts Civil Service Commission address the members of the club concerning the work of Cardinal Newman.

All members of the club are urged to be present as plans of the year, including those of the informal dances, are to be discussed. As in previous years the list of club members in good standing will be published in this year's Technique, so the management asks all those who have not paid their dues to date to do so before the Wednesday meeting. A buffet supper will be served before the business is taken up.

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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.

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Class of 1887

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HARRY L. ROGERS, Col. Q. M., U. S. A.

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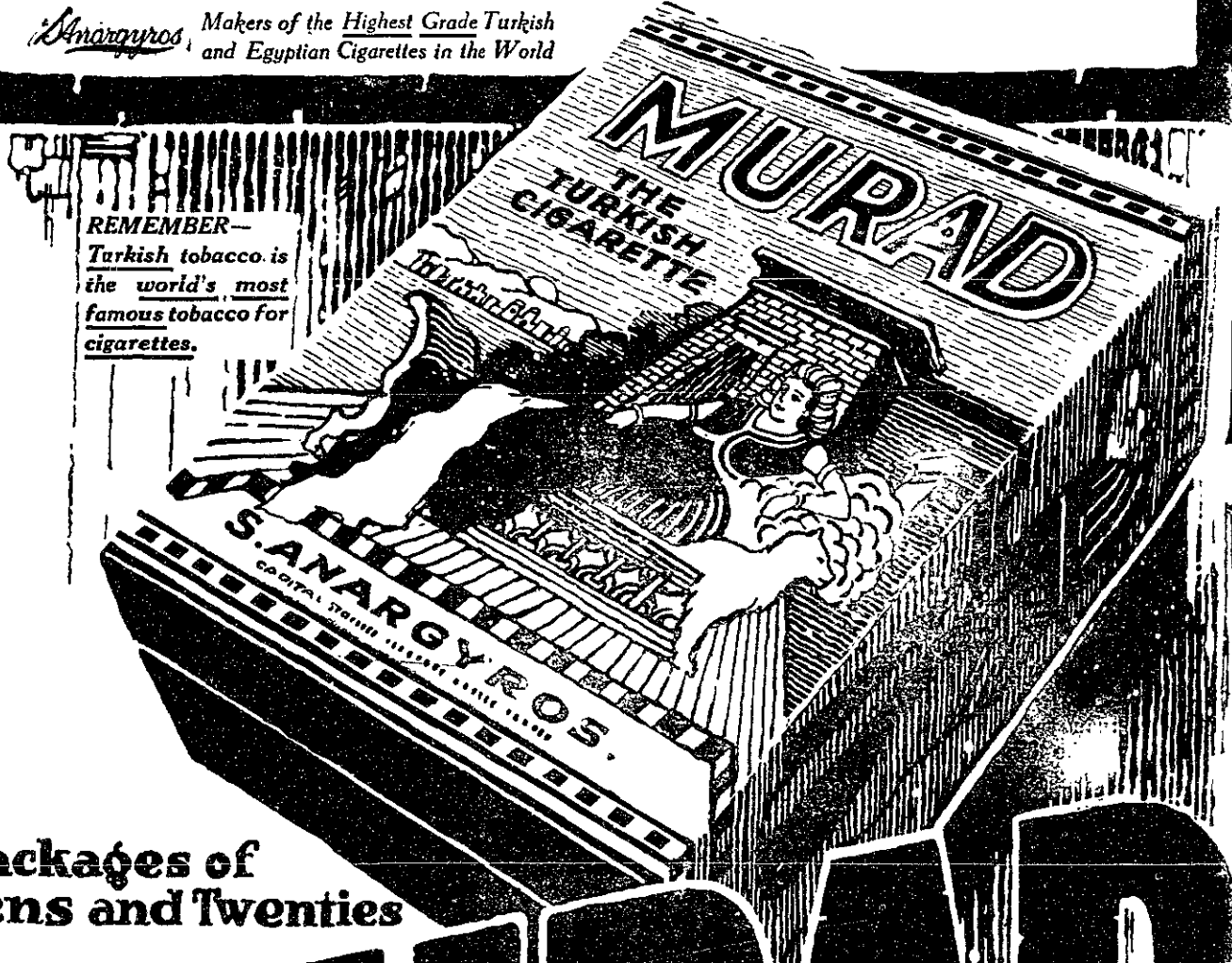
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Class of 1920

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U. S. NEEDS TECHNICAL MEN FOR SERVICE DURING WAR

For further information concerning these positions, communicate with the nearest Secretary of the Civil Service Commission or the M. I. T. Committee for National Service, 908 Union Trust Building, Washington, D. C.

Cir. No.	Position	Service	Salary	Date of Exam.
1	Surveyor	General Land Office	\$1200-\$1800	Feb. 6-7
25	Junior Telegraph and Telephone Engineer	Interstate Commerce Commission	\$720-\$1680	Jan. 23
32	Laboratorian, qualified in Chemistry & Physics	Dept. Elec. Engr.	\$1000	Jan. 15
37	Specification Writer	Nav. Acad., Annapolis		
56	Mech. and Elec. Engr.	Bu. Yds & Dks. Navy	\$4.72-\$7.04	Jan. 15
1402	Assoc. Physicist, qualified Metallurgy	Nat. Advisory Comm for Aeronautics	\$1500	Jan. 15
1492	Asst. Physicist, qualified Physical Metallurgy	Dept. of Commerce	\$2000-\$2400	Jan. 15
1492	Laboratory Asst.	Dept. of Commerce	\$1400-\$1800	Jan. 15
		Dept. of Commerce	\$1000-\$1320	Jan. 15

Until further notice and on account of the urgent needs of the service, applications will be received at any time. Papers will be rated promptly and certification made as the needs of the service require.



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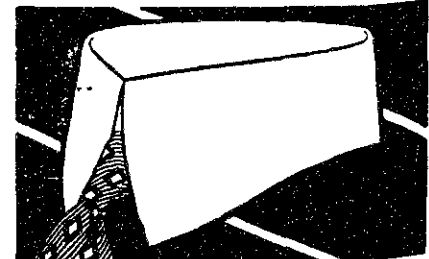
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Vol. 37. No. 77

CAMBRIDGE, MASS., TUESDAY, JAN. 15, 1918

Price Three Cents

PRELIMINARY TRIALS FOR B. A. A. MEET HELD

Red and Gray Runners Compete
For Places on Team Entered
in B. A. A. Meet to be Held
February 2

COACH KANALY PLEASSED

After the short break during the Christmas holidays, the track season opened again last Saturday with the preliminary trials for the short and long distance relay teams which are entered in the B. A. A. meet to be held February 2. About one hundred and ten men have been competing for various places on the teams during the season and several of the trials were both fast and close. Coach Kanaly said after the trials that he expects to turn out a track team equal to the team of last year, in spite of the enlistments and other disadvantages which have hampered the team up to this time.

In the trials, which are only preliminary, Halfacre '18 and Bawden '21 ran a close race in which Halfacre crossed the line a short distance ahead. P. Scott '21 and O. L. Bardes '21 both finished well in this run and at present are in the lead for the remaining places on the "long" team. Scott has already made quite a name for himself on the track by his credible performances on the Noble and Greenough team. D. Carpenter '21, a former star at Andover, and W. F. Atwood, also a freshman, are showing good form in the distances, Carpenter's best times being made in the mile run.

Since the return of W. K. MacMahon '20, the last year's two mile team is left intact, the same team that ran against Cornell in the Indoor Intercollegiate in Philadelphia. The members of this four are:—MacMahon '20, F. T. Halfacre '18, G. C. McCarten '19 and H. A. Herzog '19.

W. T. Bossert '20, who has done some good work in the dashes this year, looks good for one of the places on the short distance team.

Theodore Wright '18 of Cambridge, captain-elect of the Track Team, has enlisted in Naval Aviation, and it will be necessary to elect a new 1918 leader next week. Wright won the New England intercollegiate pole vault last year at 11 ft. 4 in., and finished second to Marc Wright in the New England A. A. U. championships. He represented the I. A. A. during the summer and won his specialty at the Brockton Fair games.

A year ago M. I. T. ran the Dartmouth "short" team at the Unicorn meet, each member racing three times around the 130-yard track in Mechanics Building, the total distance being 1,500 yards. Dartmouth, Syracuse, Fordham and the University of Pittsburgh are eager to book races at the B. A. A. meet, but receipts for the indoor classis are to be turned over to the Army and Navy equipment funds and the officials of the Back Bay Club are unlikely to spend as much money as usual to bring on college quarters, particularly when local attractions are so numerous.

The M. I. T. "long" team, each man running 780 yards or six laps apiece, did not have a race at the B. A. A. meet last year, but the group of Red and Gray athletes available will be accommodated this year. The freshman team last year opposed yearling quarters from Dartmouth and Holy Cross. If Yale does not have a "long" team Tech might be pitted against Harvard.

NOTICE

A picture of the Institute Committee will be taken today at 1.10 o'clock at Notman's Studio, Park street.

The Swimming Team will meet at Notman's Studio today at 1 o'clock, where a picture of the team will be taken.

CHEMICAL ENGINEERS VISIT RAZOR PLANT

Thirty Men Inspect Gillette Razor Company

Last Friday the members of the Chemical Engineering Society made a tour of inspection of the Gillette Safety Razor Plant. There were about thirty men in the party, and they were guided through the plant by the superintendent. The society held its elections yesterday, and the results will be announced on Friday.

The process of manufacturing of the blades proved to be an interesting as well as an instructive one, and the machinery used is unequalled anywhere. The machines, which are run by compressed air, are in long rows of one hundred each and are controlled by a master machine. The single blade is picked up by fingers and is ground in one minute. It is then turned over and the other side receives the same treatment. Another pair of fingers picks up the ground blades and places them in piles. The men were then shown the process for making the cartons, boxes, and for marking the blades. The Gillette Safety Razor Company is about to erect a five-story building as an addition to the plant.

TECH 28--BROWN 22

Technology Swimmers Defeat Brown in Providence

The Swimming Team journeyed to Providence last Saturday afternoon where they defeated the strong team of Brown University by the score of 28 to 22. This is the first meet of the season for both teams and as great interest is shown in the sport at Brown the result of the meet is encouraging for Technology. The contest, held at the Brown tank, consisted of a relay race, fifty hundred and two hundred twenty-yard dashes, plunging and diving contests. There was also a relay race between the Brown freshmen and the team of the Moses Brown school in which the Brown freshmen were badly beaten.

The features of the meet were the fifty and hundred-yard dashes in both of which M. Untersee '19, captain of the Technology team, triumphed over his former schoolmate, M. Prendergast. These men were both stars on the Brookline High School team. The Institute team captured first places in the fifty, one hundred and two hundred twenty-yard dashes and the plunge, and second in the dive and two hundred twenty-yard dash. Brown won the relay race by about ten yards, and got another first place in the dive with seconds in the fifty and one hundred-yard dashes and plunge. A. E. Wales '19 went sixty-seven feet in the plunge.

Summary:
Relay Race:—Won by Brown (Stearns, Fitzgibbons, Captain Peters, Prendergast); M. I. T. (Shaw '21, Porcher '19, Young '21, Captain Untersee '19), second.

Diving:—Won by Lawton, Brown, 96.4 points; Shaw '21, Technology, 81 points, second; Walker '19, Technology, 75 points, third.

Fifty-yard Dash:—Won by Untersee '19, Technology; Prendergast, Brown, second; Stearns, Brown, third. Time 26 4-5 seconds.

Plunge:—Won by Wales '19, Technology; Welsh, Brown, second; Winn '21, Technology, third. Distance 67 feet.

Two Hundred Twenty-Yard Dash:—Won by Green '21, Technology, Bolan '19, Technology, second; Fitzgibbons, Brown, third. Time 2 minutes, 52 2-5 seconds.

One Hundred-Yard Dash:—Won by Untersee '19, Technology; Prendergast, Brown, second; Stearns, Brown, third. Time 1 minute, 1 4-5 seconds.

Relay Race:—Brown freshmen vs. Moses Brown School.—Won by Moses Brown.

P. D. Sheeline '19, manager of the Swimming Team, assisted by T. F. Hobson '21 and R. McKay '21, has arranged the following schedule:—

(Continued on page 2)

PRESIDENT MACLAURIN DISCUSSES NEW ENGLAND'S PROBABLE FUTURE AS NATIONAL EDUCATION CENTER

MID-YEAR TRIP

E. E. Society to Visit Many Important Plants

The Electrical Engineering Society will take a trip during the mid-year vacation to inspect several plants in New York State according to the present arrangements of the officers of the society. No definite decision has been made yet, the feasibility of such a trip resting entirely upon the number of students who express their willingness to go on it. The itinerary of the proposed trip includes the General Electric plants in Pittsfield and Schenectady and the plants of the Western Electric and American Telephone and Telegraph Company in New York City.

It has been exceedingly difficult to arrange the trip this year owing to the fact that many factories operating under war conditions have found it necessary to deny engineering societies the privilege of inspecting their plants. Several plants have been corresponded with but have not yet been heard from, and it may be possible to include these, the American Locomotive Company of Schenectady is one which has not yet been heard from and as this is one which would prove to be very interesting, those in charge are still hoping that a reply will soon be received. Owing to the location of the Interborough Station, New York, in the barred zone near the water-front, permission to inspect that plant could not be obtained.

The cost of the trip will be approximately \$23.00 for each person, not including food which must be bought separately. If more than ten students sign up to make the trip, the cost will be reduced considerably as better railroad rates can be secured. The twenty-three dollars includes Pullmans, if it should be possible to secure them. More definite plans will be announced later when it is known how many are going to make the trip and what other plants may be added to program of inspection.

UNIVERSITY UNION

Lansingh '98 Writes of Work of Paris Bureau

The work which the Tech Bureau in Paris is doing for Institute men in service has been described by Van Rensselaer Lansingh '98 in a letter to James W. Rollins '78, Chairman of the M. I. T. Committee for National Service. Mr. Lansingh is Business Manager of the American University Union and Director of the Bureau in Paris. The activities which the Bureau is at present carrying on may be summarized as follows:

(1) Meeting Tech men who come to Paris, and advising with them.

(2) Helping men get transferred to the service for which they are best fitted, or to meet those officers in the Army with whom they want to talk over their future and the possibility of obtaining a commission.

(3) Writing proper letters of recommendation so that the men in the Ambulance and Field Service can try for commissions.

(4) Assisting the men financially where necessary, to tide over temporary financial embarrassment.

(5) To send to all Tech men on our mailing list copies of "Tech" as soon as they are received.

(6) To send to all Tech men in France the Technology Bureau Bulletin, of which ten issues have already been sent out since July, on an average of about one for two weeks.

(7) Getting in touch with any Tech man whenever we can find their names and addresses, inviting them to use the bureau when they come to Paris, and

(Continued on page 2)

Speaks of the Late Colonel T. L. Livermore's Plans of Co-operation of Educational Institutions of New England States

SIX HUNDRED ATTEND DINNER

PRESIDENT RICHARD C. MACLAURIN told the members of the Alumni Association at the annual banquet held in the Walker Memorial Saturday night that Boston and New England may lose their supremacy in the realm of education even as they have lost it in the realms of commerce; that he believes educational supremacy will inevitably be lost to this section if it dissipates its energies and scatters its forces.

Before making this prediction, the President asserted that Technology's largest question today is undoubtedly its future relations with Harvard.

"Both institutions have a great record of achievement" he said. "Harvard, incomparably the greater if we survey the whole field of education, but not greater in the particular field that the Institute has cultivated. Each institution is strong enough to play an independent part and there will doubtless be some who will advocate that course. Before settling the matter, however, we should observe carefully the broad current of education and not forget that there are many forces tending to divert the stream of influence from Boston and New England."

Then pointing out the danger of loss of educational domination, he continued:

"The greatest asset of this section is its record of achievement and its tradition of high purpose and exalted aim. Let us continue to aim high. If we do so and are properly supported, we can build up in this community one of the very greatest, if not the greatest centres to be found anywhere in the world of science, pure and applied, for the two must go together—a centre of scientific influence that will profoundly affect the future of this country, and indeed of the world."

President MacLaurin indicated that hope of closest co-operation between Technology and Harvard is still alive, and said that just before his death Colonel Livermore had presented an outline of a plan he believed would bring the desired result and overcome the objections of the court to the former agreement, and perhaps be equally effective as a working basis for action.

Francis R. Hart '89, the President of the Alumni Association, presided, and spoke first of the new Walker Memorial which has been turned over to the Government for barracks, then of the enormous services of the Alumni.

Wellington Koo, the Chinese minister, brought every man to his feet with his expressed confidence in victory for democracy.

"As China overthrew the Manchu dynasty, as Russia overthrew the tyranny of the Czar, so will democracy triumph over autocracy," he said.

Alfred L. Aiken, president of the National Shawmut Bank, spoke more particularly on the financial phases of the war.

"Enormous inflation," said he, "must inevitably result, but we shall meet our burdens, ultimately. Failure to do this would mean failure in the war."

The only feature that relieved the serious tenor of the evening came just before the speech of Francis Hart. A newsboy distributed copies of The Tech, which contained his speech verbatim, and caused a great deal of laughter.

Among the Alumni were some seventy-five men in the service, stationed in the neighborhood who were the guests of the Association, and a note of color was given to the whole dinner by the presence of some fifteen women, wives of the faculty and graduates of the Institute.

Dr. MacLaurin, in his address, spoke first of the war, and compared Technology's part in this war with its part in the Civil war, which occurred when the Institute was just chartered. He

rejoiced in the new opportunities for service, but proposed to strengthen them by a closer union with Harvard. He said in part:

"The one subject for serious thought and for serious action today is the war."

"As a nation, mainly through our President, we have made admirable and helpful contributions to what may be called its philosophy, but we are still far from supporting that philosophy by appropriate action, and it is incumbent on all individuals and institutions not to sit back and criticize, but to get into the business and help. Since the outset Technology has been 'doing its bit,' and as time goes on its contributions are steadily increasing in magnitude and significance, and I hope, of course, that this will continue until the end."

"I will not impose upon your patience by enumerating the various activities of Technology associated with war-like ends. They have been set forth in some detail in various publications of the Alumni Association. Large numbers of men are going forth from the Institute almost daily to the service of their country and of humanity, to play their part in this great crisis of the world's history. They go out in all cases that I have observed, with admirable spirit, and it is this spirit of our young men that is the most cheering fact in the outlook today, where there is much that is discouraging."

May It Not Be Too Late

"If only they can get into effective action in time, and if only history will not have to write 'too late' on America's action, as according to Lloyd George it must write with regard to some of the activities of our Allies, we need have no misgivings as to the outcome. As I see these young men going forth, I think of the part that they are to play in the great conflict and of the influence of their service on the history of the world."

"I think, too, of the contributions that they will make in later life, if they come scathless through the present trial, of the contributions they will make to the power and usefulness of this Institution, and I wonder if many of them are destined to play as great a part in its development as were some of those who gave themselves with like enthusiasm to the cause of humanity in the great war of '61."

"It is strange that the two most critical steps in the Institute's history should have been taken on the eve of a great war. Only a little more than a year ago we occupied these new buildings and by occupying them greatly increased our opportunities for usefulness. Without the facilities that are now available practically all the services that we are now rendering to the government would have been impossible. We could not have improved our equipment more opportunely than we did."

"The other critical step was the actual foundation of the Institute, the first step that cost so much. The charter of Technology was signed by Governor Andrew only a few days before the outbreak of the Civil War, and as I have said, not a few of those who played a conspicuous part in that war were destined to shape the course of Technol-

(Continued on page 2)

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IN CHARGE THIS ISSUE

Albert Kruse '20

R. H. Smithwick '21

TUESDAY, JANUARY 15, 1918

PRESIDENT MACLAURIN'S ADDRESS

THOSE who attended the Alumni Dinner Saturday evening heard a highly significant address delivered by Dr. MacLaurin. Every alumnus present was deeply moved by the recital of services rendered by Technology men in this war, by the realization that the Institute made two of its most critical steps on the eve of great conflicts, and by the knowledge that the new buildings were occupied just in time to greatly increase Technology's opportunities for usefulness. Every man was encouraged to sacrifice and service by reference to two men, great in their loyalty both to their country and the Institute, General Walker and Colonel Livermore. The inspiration to Technologists which the lives of these two unselfish men affords was never before brought home so completely to the guests present.

In connection with Colonel Livermore, Dr. MacLaurin sounded the keynote of co-operation in great educational projects, and forcibly expressed his opinion that the East would lose its supremacy in the realm of education as it had in the realm of commerce if it dissipated its energies and scattered its forces. By citing the advantages of close relationship with Harvard, he firmly convinced his audience that such a relationship would not swallow the independence of Technology, but would build in this community the greatest center to be found anywhere in the land of science, a center of scientific influence which would affect the future of this country and indeed of the world. Seldom have the alumni been so deeply impressed as they were by Dr. MacLaurin's revelations, prophecies and advice, and once again we must all of us appreciate the far-sighted wisdom of our President.

THE WAR AND TECH SHOW

AT the last Institute Committee meeting the advisability of discontinuing all but the Boston performances of Tech Show was discussed and there will be more discussion later. The question is undoubtedly a timely and important one. If the war has done anything to Technology, it has had a somewhat regrettable effect on activities. We are working under stress, but there is no reason why the activities should be carried on in a half-hearted manner—it would be better to discontinue them. Tech Show, however, has had a good start and there is no reason why we should not find time to devote to it. No better incentive to making Tech Show a success this year could be found than the fact that the proceeds are to go to the American University Union. Tech Show must be given and if railroad conditions permit it, and they probably will, the out-of-town performances, which have always been successful, should not be discontinued.

At last we are coming into our own and getting a little publicity in the daily papers. The war has been responsible for this and every day we get evidences that our wartime efforts are being popularly appreciated. Only yesterday morning one of the Boston papers commented editorially on our work and on the need for "Technology trained men." The "Technology trained men" was probably a little strong, but it is gratifying to know that we are being recognized as a vital factor in the war.

SWIMMING TEAM.

(Continued from page 1.)

University of Pennsylvania, at the Cambridge Y. M. C. A., Saturday, January 19.
Naval Academy, at Annapolis, February 2.
Yale, at New Haven, February 5.

Amherst, at Boston Y. M. C. A., February 16.
Wesleyan, at Middletown, February 23.

Other meets will be announced later. For the present Captain Untersee wishes to impress upon the student body the immediate need of swimmers. It is said that there are many good swimmers at the Institute especially in



To continue intercollegiate athletics with less extensive schedules and reduced expenses, as a means of military training, was the policy outlined for the Princeton University A. A. recently at a postponed meeting of the board as a basis for the Tigers athletic plans this Spring:

"Resolved, that we approve the idea of the development of athletic sports as a means of military training and we offer the facilities of the association for the use of the student battalion for that purpose, and, in the second place, we approve the idea of having intercollegiate athletic competition on a simple and inexpensive plan, which shall not interfere with the military training, but which shall maintain the athletic traditions of Princeton University."

As a result of the meeting, which was attended by Chairman Dean Howard McEnahan, Dr. J. E. Rayeroff, Mr. Wright, J. H. Barrett, 1918, and R. F. Jakopiec, 1919, it is thought likely that Princeton will be represented by teams, either formal or informal in both track and baseball this Spring.

Yale varsity basketball team defeated Dartmouth 29 to 14, in the Intercollegiate League series. It was a hotly contested game, and the Eli outfit was forced to extend itself to win.

Shedd and Van Slyke, the two Yale forwards, contributed many features. The latter made four cleverly executed goals from the floor. Stradell of Yale made four goals from the floor two of which were long shots. Sample, Harmon and Johnson were the most prominent men in the Green lineup.

The annual debate between Cornell, Columbia and Pennsylvania will take place on April 5. The contest in Philadelphia will be held in Witherspoon Hall. The subject approved for the intercollegiate debates is: Resolved, "That the Government should exercise the power to restrict the expression of opinion in war time."

The annual Ivy Ball at Pennsylvania, the most prominent social event of the year, will be held on Friday night, Feb. 8. The ball will be given this year for the benefit of the American Overseas Committee of the Emergency Aid.

Dr. Hugh Gibson, secretary of the American Legation in Belgium under Brand Whitlock, gave a lecture recently on his experiences in Belgium during the first two years of the war.

The hockey game scheduled for Jan. 12 between Andover and M. I. T. freshmen was called off on account of the poor conditions at Rabbits Pond rink, as a result of the storm early in the day.

Five dual meets have been arranged for the Cornell University wrestling team this Winter in addition to the intercollegiate individual championships. The first meet will take place at State College, Pa., where the Pennsylvania State wrestlers will be the opponents February 22. A return match with Pennsylvania State here will close the dual meet program March 10. The schedule:

February 22, Pennsylvania State University at State College, Pa.
March 2, Lehigh at Ithaca; 8, University of Pennsylvania at Philadelphia; 9, Annapolis Academy at Annapolis; 10, Pennsylvania State University at Ithaca.

S. Valentine, a member of the senior class and captain of the Columbia University fencing team, has entered the Naval Aviation School at Technology and has resigned as captain of the blue and white team. His successor is H. W. Orster, a sophomore. M. J. Bloomer, another sophomore, will take Valentine's place as secretary of the Intercollegiate Fencing Association.

At a recent meeting of representatives of Yale, Pennsylvania and Columbia, it was decided to hold the intercollegiate fencing championships in the Columbia University gymnasium. It seems probable that the three colleges named above will be the only ones to enter the championships. Annapolis will not compete, and Harvard, usually a strong contestant, will have bayonet work instead of fencing. Yale will be represented, even though the members of its squad will have to pay for their own coach. It was suggested at the meeting that bayonet combats be made intercollegiate, but serious discussion of this feature was left for future consideration.

The freshman class and Untersee wants these men to report to him at once. Undergraduates should realize the importance of this demand for although the team won the Brown meet it is the first time that the relay team has lost for several years.

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PARIS BUREAU.

(Continued from page 1.)

also placing the services of the bureau at their disposal at an time.

(8) Keeping accurate filed changes of address of all Tech men in services abroad.

(9) Developing and printing photographs which may be sent to us keeping a file of the same and making duplicate copies for other men, when wanted.

(10) Doing errands, commissions, etc. in Paris for the men who are out of the city, such as having eye-glasses mended buying books, presents, tobacco, etc. Such work and commission are charged to the men's account, and when they come to Paris they pay the amount outstanding.

(11) Maintaining a room for Tech men where are kept at all times papers and magazines. We also keep on hand at all times cigarettes, pipes and tobacco for the benefit of our men, and plenty of stationary and writing material. The room is decorated with pictures of the Tech buildings, and the whole air of the place is one of hominess.

(12) Writing of brief notes home to the parents of all the boys when they call here: telling them that the boys have been in Paris and are in good health, and any other little items of information which would be of interest to those at home.

(13) Sending cables for the men when requested.

(14) Finding out in regard to men as to their address and health, whenever requested by cable or letter advice.

(15) Forwarding mail and packages which are received for the men.

(16) Taking care of bundles, trunks, etc., which are left in our charge.

(17) Opening bank accounts for the men. Arranging for them to get money from home either by getting their checks cashed by cable or in Paris. Exchanging money at the current rates of exchange.

The American University Union is at the present time composed of about ninety colleges and universities. It has taken the Royal Palace Hotel, 8 Rue de Richelieu, Paris, where it can accommodate a little over a hundred men with sleeping quarters. The Union is conducted on the principle of a club rather than of a hotel.

Some of the larger colleges, viz: M. I. T., Harvard, Yale, Princeton and Michigan, maintain their own bureaus or offices in charge of one of their Professors or Alumni, and are thus able to give special attention to their own men. The other colleges are looked after by the general staff of the Union. These bureaus work in close co-operation with the Union in maintaining a complete list of all college students, and in every way work harmoniously with the Union officials. The Union aims to give to all college men all the service possible; maintains a club house with sleeping accommodations and restaurant facilities; maintains a complete register of all college men, arranged both by colleges and alphabetically; helps for college dinners, reunions etc.; maintains a small canteen or store for the benefit of its members; arranges for French lessons.

(Continued on page 3.)

ALUMNI DINNER.

(Continued from page 1.)

ogy in later years. The chief of these was General Walker—that great president of this Institute, often spoken of as its second founder—a man who by his qualities of mind and heart won the affection and regard of all with whom he was associated and whose memory has been built into stone in this noble Walker Memorial dedicated in his honor by the Alumni of Technology.

“Only yesterday I stood before the grave of another hero of the Civil war who played an important part, though less conspicuous in the history of Technology, Colonel T. L. Livermore. He was only a lad of 17 when the war broke out, but his capacity and character made him a colonel at 20. This is not the appropriate place to estimate his value to the community or to speak of his contributions to knowledge, of his great and honorable business career or of his unique special charm. His service to the Institute, however, may well be touched on here. He was fighting for liberty when the Institute was founded, so that he was not an alumnus of Technology, but no alumnus could have been more loyal to his alma mater nor given himself more unsparringly to the advancement of its interest.

“For more than a generation he has been a conspicuous member of its corporation and for a large part of the time a member of its executive committee. How much he thought about it and how much interest he displayed in all its larger problems none can know save those who, like myself, were intimately associated with him in the conduct of its business.

“Probably to most of the alumni his name is most conspicuously associated with the controversy that arose over the so-called ‘merger’ with Harvard University that was proposed in 1904. He was strongly opposed to the plan then formulated and fought it, as a gallant soldier, vigorously, but without a touch of bitterness, so that he retained the respect and admiration of those who favored the plan as well as those who shared his views.

Building Great School.

“Happily there was no similar controversy over the arrangement made three years ago for co-operation between Harvard and the Institute. He was most intimately associated with the negotiations that preceded that agreement, and it was he that moved its adoption by the corporation of the Institute. In the closing days of his life he was very much interested in the problems presented by the recent decision of the Supreme Court practically annulling the agreement of three years ago. When that decision came up for discussion in the executive committee of the corporation he analyzed it carefully and reached the conclusion that there was nothing in the decision that barred the way to other forms of effective co-operation.

“More than that, he was earnest in

his advocacy of the view that the condition of education in this country and in particular the grave educational problems that would be presented after the war demanded the building up of a great school of applied science in this community that would be national in its scope and influence, and he believed that such a school could be developed far more effectively by co-operation between Harvard and Technology than by either acting independently.

“In the very last conversation that I had with him he dwelt earnestly on this matter, emphasizing his favorite topic, that an engineering school to be really effective must be permeated with a professional spirit. Only a week ago he sent me a draft of a scheme for co-operation between the two institutions that would, in his judgment, overcome the objections indicated by the court to the former agreement and be perhaps equally effective as a working basis for action. With characteristic modesty he said, ‘I send you this outline for what it is worth, but without pride or pater- nity.’

“The former plan, he remarked, had this great merit, ‘that it not only looked as if it would work well, but actually did work well.’ He took occasion to point out also that Technology need no longer have any fear of being swallowed. As he put it ‘an institution with such a record of achievement, with such a backing from its alumni and with \$20,000,000 of assets, can’t be swallowed, and no one would think seriously of making the attempt.’

“Full of years and honor and while apparently still vigorous, he has gone. His place will be impossible to fill, but the record of his loyalty to Technology will remain as a stimulus to others on whom the burden of leadership will fall.

“As to the Institute itself, the great issue is whether we shall enlarge or contract, whether we shall become more provincial or more national, whether we shall strive to serve a particular section or the whole nation and to some extent the whole world. I do not believe that you will have much doubt as to which direction we should choose, but aspirations are useless things unless they lead to accomplishment, and we cannot render world-wide service either in education or in war merely on the basis of good will and intention.

Future With Harvard.

“We must devise the means to the desired end. The largest question is undoubtedly that of our future relations with Harvard. Both institutions have a great record of achievement, Harvard incomparably the greater if we survey the whole field of education, but not greater in the particular field that the Institute has cultivated. Each institution is strong enough to play an independent part and there will doubtless be some who will advocate that course. Before settling the matter, we should observe carefully the broad current of education and not forget that there are many forces bending to divert the

TECHNOLOGY WAR SERVICE AUXILIARY
ISSUES BULLETIN ON WORK OF M.I.T. WOMEN

Bulletin Number 1, first issued by the Technology workroom, gives a picture of what is being done by Technology women in this department of their war service. The room originally used in Rogers Building has been abandoned for a larger one; the number of half-days when work is going on has been increased to five, nearly \$7000 has been expended. Some idea of the quantity of work done may be had from the following list of articles distributed between October and January 1:

Convalescent Robes	77
Laundry Bags	232
Pajamas	102
Pneumonia Pads	304
Slippers (pairs)	391 1-2
Towels	479
Surgical Shirts	96
Helmets	36
Mufflers	126
Socks (pairs)	255
Sweaters	473
Wristers (pairs)	244
Chocolate (pounds)	100
Tea, Coffee, Sugar (each	5
Soap (bars)	100
Comfort Bags	482
Comfort Kits	159
Sundry Supplies for Kits	261
Water Bags	12
Air Pillows	12
Victor Records	44
Sundry Toilet Supplies	253
Paraffin Bags	36

The distribution of these articles has been: 1 By trunk (carried as luggage) to Mr. Van Rensselaer Lansingh, at the University Union in Paris and through him to Tech men; 2 By mail, etc., to individual men in France and in American camps; 3 Direct, in about sixty cases, to Tech men going into service who have come in to the Auxiliary headquarters to leave their names and addresses. Books, of which over 1300 have been presented to the book committee, have been by them distributed either singly, by mail, to distant points, or in the M. I. T. Portable Book Case, a light wooden box with a handle on its sliding cover. Fifty of these boxes, each containing about fifteen books, a recent magazine, and the Auxiliary leaflets, have gone to individual Tech men or to a group such as the

Technology Club at Fortress Monroe; fifteen, each containing also a scrapbook and a game of checkers, are at the base hospital at Camp Devens.

That these labors of the workroom are supplying a real need amongst Tech men in service is made plain not merely by appreciative letters from the recipients, and by the constantly increasing demand; recently has come a letter from the alumni secretary at one of the other colleges affiliated in the University Union, stating that a cable from the representative of his college to their men in France and to apply for in Paris had asked him to rush supplies “information” to Mrs. Cunningham. Nor is this the first piece of evidence going to show that our men in France are already envied for the care they are getting from the women who have organized for war service under the banner of their Alma Mater.

Another paragraph in the bulletin shows what the workroom has done and what it plans to do in response to emergency calls outside the Technology field. Readers of The Tech already know how promptly and effectively the resources of the workroom have been employed for the benefit of Halifax sufferers and of shivering recruits at Fort Strong; at the present time part of the workroom effort is being put on supplies to relieve the extraordinary suffering in Italian hospitals. Technology men in Italy, it is hoped, may be able to look after the distribution of these supplies; in such cases of extra Technology work it will often be possible to employ as agents Technology men in positions of responsibility in the workroom to respond to these emergency calls is the best warrant of its superabundant vitality, and is only an added assurance that it will first and last give full measure, pressed down and running over, to the claims of Technology men in service.

Finally the bulletin wishes it understood that the doors of the workroom are always open to all friends of Technology whether they come to give to work, to ask that books, for instance, be sent to men in service, or whether they come, on their way to camp, merely to say goodbye.

PARIS BUREAU.

(Continued from page 2.)

sons, pensions, etc.; has a good library of books, magazines and newspapers both American and foreign; endeavours to advise with the men when requested, and tries as far as possible to make the Club the men's headquarters and home in France.

The bureaux are doing for their own men, but more effectively because of a more intimate knowledge of conditions, what the Union is trying to do for all college men. Owing to the fact that the Tech bureau was the first in the field and first organized, and that it had sufficient clerical help from the start, and was caring for a smaller number of men, it is at present giving more personal service than the other bureaux, and from the comments of the men to whom it is giving service, the work is apparently satisfactory.

Concluding his letter, Mr. Lansingh writes:

I trust that with the outline of our work given above, that you will get a fair mental picture of what we are trying to do here. As this is the first chance I have had of outlining the work of the Paris bureau, since the Technology Club of Paris became the Tech bureau in the American University Union in Europe, I am sending a copy of that part of my letter to the Editor of the “Tech,” as it will probably be of interest to others.

I think you will readily understand that it is impossible for one man and one stenographer to properly do the work of the Technology bureau on one-third time, which is about what I can devote to this work. Inasmuch as Mr. Allan expects to leave at any time to take his commission in the Army, it is necessary that somebody be sent promptly from America to take up the work, but preferably it should be a man who can work with me until next June, and then can take complete charge of the Tech bureau. It will be up to the Union. I think the method adopted by the other colleges of sending over a Professor who knows the boys of the recent classes, is very good and if such a man can be spared at the Institute, I suggest sending him.

With kindest regards, I remain,
Very truly yours,
VAN RENSSELAER LANSINGH, '08.

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For further information concerning these positions, communicate with the nearest Secretary of the Civil Service Commission or the M. I. T. Committee for National Service, 908 Union Trust Building, Washington, D. C.

Cir. No.	Position	Service	Salary	Date of Exam.
1	Surveyor	General Land Office	\$1200-1800	Feb. 6-7
25	Junior Telegraph & Telephone Engr.	Interstate Commerce Commission	\$720-1680	Jan. 23
28	Heating and Ventilating Engr. and Treasury Dept. Draftsman		\$1500	Jan. 15
32	Laboratorian, qualified in Chemistry and Physics	Nav. Acad. Annapolis Dept. Elec. Engr.	\$1000	Jan. 15
34	Asst. Petroleum Chemist	Dept. Interior	\$1680-1920	Jan. 15
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On account of the urgent needs of the service, applications will be accepted until further notice. Papers will be rated promptly and certification made as the needs of the service require.

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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.

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JAMES P. CLARKE, Captain. Died.
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OTO E. STRAHLMANN, 1st Lieut., Avia. S. Sig. Corps.
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ALAN P. SULLIVAN, Recruit, 301th Inf. Headquarters Co., N. A.
W. L. TAPLEY, Military service, U. S.
H. S. TOOLE, Industrial
KENNETH B. TOYE, Prov. 1st Lieut., C. A. C.
EDW. F. TWOEY, San. Eng. Cantonment worker.
ARMIN A. UEBELACKER, In reg. Army.
FERNALD F. JULSE, 1st Serg., Co. E, 301st Inf. N. A.
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A. R. KNIGHT, 1st Lieut. Now in Egypt.
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I. J. HALL, Am. Miss. Motor Trans., A. E. F. Reserve Mallet, Paris, France.
NELSON C. HINCKLEY, Army Aero Squadron No. 24.
PARKER H. KENNEDY, Naval Avia. Insp., M. I. T.
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HAMPTON F. SHIRER, Amb. Corps
M. L. SMITH, Aviation.
HENRY M. BARBER, Priv., N. A.
DOUGLAS R. BUCHANAN, Capt., Instr., Flying Corps.
THOMAS S. FOGARTY, Priv., N. A.
WILLIAM C. FOSTER, Army Aviation Corps.
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ANGUS D. DOUGLASS, Corp. Quartermaster's Dept. Camp Devens.
J. H. NELSON, Avia. Corps. Cornell Univ.

TO TRAIN DRAFTED MEN

One Hundred Scientific Schools to Give Special Instruction

Representatives of about 100 engineering and scientific schools and colleges recently discussed with the Federal Board for Vocational Education the problem of training a quarter of a million drafted men in special lines of work before they are sent to the military camps.

The plan is to train the men in technical schools in a semi-military atmosphere, and the board has recommended that the schools selected be closed May 1 and turned over to the Army until next October. Among the trades in which the men will receive instructions are gas engine work, magneto repairing, acetylene welding, truck driving, sheet metal work and automobile repairing, and the board will recommend that they be allowed regular pay and subsistence during the instruction period.

College representatives said many of their instructors had been drafted and the board will recommend to the War Department that drafted teachers be assigned for instruction work.

POOL THE COLLEGES.

(From The Boston Transcript.)

Chicago, Jan. 12.—The appointment of a Federal Administrator of Education was urged in an address today by President MacCracken of Lafayette before the Association of American Colleges. The speaker's subject was "Pooling of College Interests as a War Measure," as he said in part:

"There is a widespread feeling that American education is not as efficiently organized as it might be to make its greatest contribution to the war. The experience of the last six months has shown that the need is two-fold—first, the need on the part of the Government; second, the need on the part of the colleges—that in both cases the need is not so much for unity of spirit and purpose as for co-ordination, which is unity at work. The Government at Washington needs during the war an administrator of education of some sort who will be of sufficient dignity and authority to rank with the food and coal administrators, and to have authoritative standing with the Chief of Staff. His function would be to co-ordinate the demands made upon education by the Government in the prosecution of the war.

"The colleges need a war council with at least seven bureaus—a bureau of propaganda, of legislation, of statistics, of finance, of promotion, of personnel, of international relations—and national officers who shall make the educational point of view at least as potent in the councils of the nation as that of organized labor, or of the anti-liquor movement, or of woman's suffrage. In a word, higher education needs a national council and national officials to make effective their point of view, enlarge their opportunities for service, secure appropriate legislation, mould public opinion, and secure an adequate share of financial support."

The Sacrifice to War.

The college course is the latest sacrifice to war, according to other speakers at the meeting. Dr. Edmund Clark Sanford, President of Clark College, announced a war programme contingent upon establishment of universal military training. The loss to each youth of at least a year from his ordinary pursuits, he said, would probably make it necessary to reduce the length of college courses to three years without a corresponding reduction in the curriculum. Dr. Charles F. Thwing, president of Western Reserve University, condemned the Germanistic frame of mind and laid all blame for the war at the doors of the German educational institutions. "The German universities have failed utterly to be responsive to the ethical, the humane and the humanistic applications of intellectual truth," he said. "The German professors have been voluntary or involuntary liars." Many of the educators attending the meeting were of the opinion that the loss of funds, due to a material reduction of students' tuition fees and the diverting of donations to the Red Cross and other similar organizations which otherwise might have gone to colleges, threatens to cripple seriously many of the country's leading educational institutions.

JAMES W. GIBSON, 1st Lieut. Inf.
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BERTRAM F. JONES, Priv. 8th Bat. 2nd Separate Co., N. A.
NATHANIEL KRASNOFF, Am. Amb. Ser.

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