

CAMPAIGN FOR LOAN OPENS AT INSTITUTE

By Action of Institute Committee All Activities Are Asked to Subscribe—Bursar to Be Trustee

TO FORM TRUST FUND

At the meeting of the Institute Committee last Thursday, plans were discussed for active participation by undergraduates in the third Liberty Loan. Although it was felt that a canvass of individuals would not yield results proportionate to the efforts that would be required for such a canvass, it was pointed out that many of the activities were in a position to subscribe to the loan.

The plan proposed met with great favor, and it was felt that in this crisis every activity should make special sacrifice in order to subscribe the maximum possible amount. By so doing the activity will not only be adding to Technology's record of war service rendered, but will be helping itself as well. The bonds bought with these subscriptions will be deposited in a trust fund, with the Bursar of the Institute as trustee, and the trust will be administered in the interest of the activities subscribing, the title to the bonds remaining with the subscribers, and the interest being paid to them. In this way a basis of sound financial backing will be laid for each activity, on which money may be borrowed, or from which money may be drawn in time of necessity by the sale of the bonds.

Practically all of the professional societies have guaranteed subscriptions, and some of them are contemplating giving up the annual banquet in order to add to the money available. One society which did not have enough money in the treasury to insure buying a bond, is raising the funds by subscription. The Junior Prom Committee and the Woop Garoo also expect to subscribe, and prospects seem bright for having the name of every Technology activity on the books by the end of the campaign.

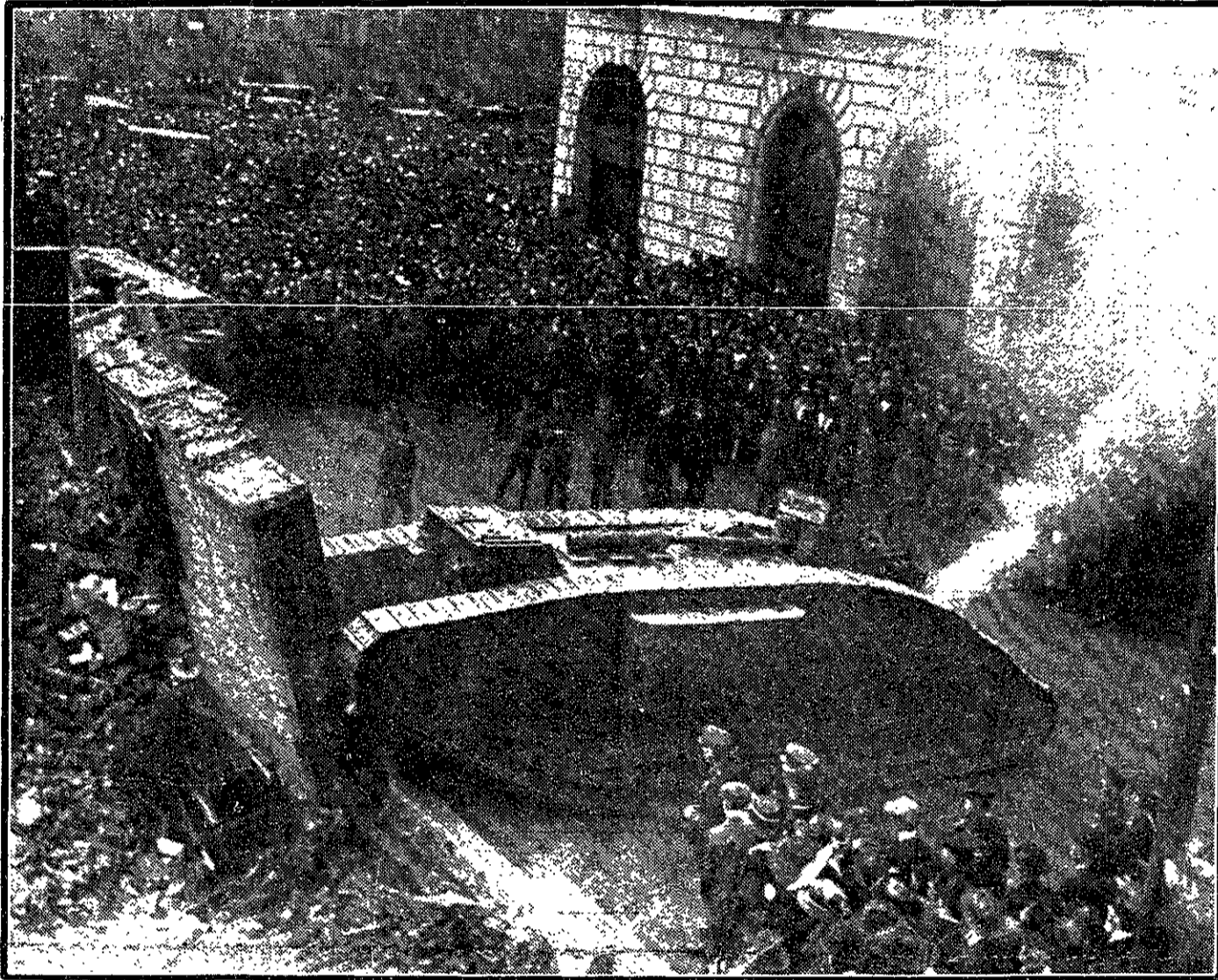
In addition to those mentioned above, the Undergraduate Activities Trust Funds is to be turned into Liberty Bonds, and several of the classes have small funds which can well be invested in this way.

Bonds for the third Liberty Loan will be for the following denominations: 50, 100, 500, 1,000, 5,000, 10,000 dollars. They are issued for ten years at 4 1/4 per cent, non-convertible, and are not subject to call. Coupons will be payable September 15, and March 15.

Payments are to be made as follows: 5 per cent when application is made; 20 per cent May 28; 35 per cent July 18; 40 per cent August 15. Bonds up to \$10,000, if paid for in full at time of application, will be delivered within about one week.

The Cambridge allotment is \$3,451,000. However, if any students wish to purchase bonds and have them credited to their home city, they may do so through the Bursar's office.

British Tank Goes "Over the Top" in Raid on Old Institute Buildings



BRITANNIA COMPLETELY WRECKS THE WALLS OF OLD ENGINEERING A AND B BUILDINGS

The British tank Britannia which is now visiting Boston for the purpose of securing recruits for the Canadian and British armies, gave an exhibition of its destructive powers Monday afternoon at 3 o'clock when it tore down several walls of Engineering A and B of the old Technology buildings on Trinity Place, which are now being razed by contractors. Without seeming effort it pushed over two brick walls several feet

in thickness, as if they were made of straw. Any doubt which might have possessed the Boston people as to the stories of the giant caterpillars power, were cleared away when of the two walls originally standing there remained only a mass of bricks and mortar.

Much danger was involved in the operation, inasmuch as several thousand people had assembled to witness the performance, and the police experienced

great difficulty in keeping them back out of the danger zone created by the falling walls. After easily pushing down the first two walls which it attacked, there was an attempt made on the part of the officers in charge of the tank to haphazardly push over a very high wall situated nearby, but the crowd pushed in so close that it was deemed too hazard-

(Continued on page 2)

HARRINGTON WILL BE LEADING MAN IN SHOW

Entrance of Chandler Into Military Service the Cause of Change — Other Characters Remain the Same

COSTUMES ATTRACTIVE

Since the last issue of The Tech, the Tech Show has had its first large rehearsal of the Cast, Chorus, Ballet and Orchestra. It was very successful and a marked improvement was shown over the former rehearsals, due to the presence of the orchestra. The Ballet and the Orchestra are co-ordinating their efforts, which means the speedy fulfillment of that degree of perfection which the management has set. The absence of Coach Duncan was felt at the rehearsal, but his sickness is slight and it is expected that he will be present for the rehearsal on Wednesday. The costumes are rapidly approaching completion. They all show the utmost ingenuity and pains, both in design and appearance, especially Helen's bridal costume. The background for these exquisite costumes, in other words, the scenery, is also coming along well, in all probability reaching completion before the Sunday rehearsal.

The management is sorry to announce the loss of Lester Van Chandler as leading man, due to his being called into the service. The part will be filled in the emergency by E. D. Harrington, whose past experience, coupled with the coaching of Chandler, who was present at the Sunday rehearsal, will make it possible for him to learn the part easily. Although the loss of Chandler is very unfortunate indeed, it is by no means fatal to the success of the Show, as all will realize who saw Harrington in last year's Show.

The improvements in the plot and action have been very great, as was to be expected from continual rehearsing. The management and stage departments are highly confident of success, as well as are all those in the cast, chorus, ballet and orchestra. The management advises all of those who really wish to buy tickets and have not filed applications to do so at once before the tickets are put on sale for the general public.

The song end of the Show is keeping pace with all of the rest of the branches.

A number of songs are having extra verses written by S. A. MacGregory '18, who has already contributed a number of capital lyrics. One or two of these have worked out considerably better than was expected. Undoubtedly one of the hits of the Show will be the "Quaker Miss" sung by C. J. Parsons '19 and Fred Britton '19. Both men have particularly good parts and Parsons has a number of other song hits.

The dress rehearsal will be from nine in the morning until eight at night on next Sunday, April 14, at the Boston Opera House. Although this is not the final rehearsal, it will be of exceeding importance, as it is expected that the complete play will be gone through at least three times, as has been the case in previous years. It is an opportune time to call the attention of all those

(Continued on page 3)

NEWS MEETING

There will be a meeting of all men connected with the news staff on Thursday at 1.05 o'clock in THE TECH office.

TECH CALENDAR

Wednesday, April 10
5.00 P. M. M. I. T. Orchestra rehearsal in the Caf.
7.30 P. M. Cast and chorus rehearsal at the Opera House.
Thursday, April 11
5.00 P. M. Cast, Chorus and M. I. T. Orchestra rehearsal in the Caf.
7.00 P. M. Ballet rehearsal at the Conservatory.
Friday, April 12
5.00 P. M. M. I. T. Orchestra rehearsal in the Caf.
7.30 P. M. Cast and chorus rehearsal in the Opera House.

MUSICAL CLUBS

Give Concert at Ayer With Wellesley Glee Club

The Combined Musical Clubs of Technology, together with the Wellesley Glee Club took a trip last Saturday afternoon to Camp Devens for a combined concert at the National Army cantonment. About forty-five members of each of the college representatives met at North Station and made the trip together, reaching Ayer at about 3.30 o'clock in the afternoon. The clubs were shown about the camp in army trucks and other automobiles by the Y. M. C. A. authorities for several hours, after which supper was served. This latter was conducted in true military style, although not as rigorous as that of the draftees, at the barracks of Company C, 301st Engineers.

The concert was given to an audience of over one thousand men at the Y. M. C. A. auditorium. As the time was very limited, the whole program, as planned, was not carried out, but the best numbers of each of the clubs were selected. As was apparent by the general appreciation and reception of the music, the clubs gave a good demonstration before the draftees, the Wellesley Club, especially, making a hit. The concert lasted an hour and a half, after which the clubs were driven back to the railroad station at Ayer Junction to get the train for Boston.

This concert is not the first one which has been given at Camp Devens by organizations of the Institute, for the Technology Orchestra took a trip there during the winter. This concert and the one given last Saturday were so well appreciated by the men at Ayer that the

(Continued on page 3)

NAVAL RESERVE NOTICE

The travelling enrolling party under Lieutenant E. S. Stolba is at the Walker Memorial. It has had a very successful visit, 75 men being enrolled and 8 rejected. The party expects to leave Thursday for Tufts College, Medford. Permission has been granted to enroll more Technology men should they present themselves at Medford. It is suggested that any student taking Civil, Electrical, Mechanical, Chemical, Marine Engineering, or Naval Architecture, should avail of this opportunity. Men interested can see Lieutenant Stolba in room 307 in the Walker Memorial.

COURSE I AND II GRADS MAY BE ADMITTED TO COAST ARTILLERY TRAINING CAMP

The following telegram regarding the admission of the graduating classes in Courses I and II to the Officers' Training Camp for Coast Artillery at Fortress Munroe, has just been received by P. M. Dinkins '18 from Lieutenant Brophy. Any further information along this line will be published in The Tech as soon as it is received.

Fort Munroe, Va.
April 9, 1918.

Efforts being made here to arrange for admission of graduating class Mechanical and Civil Engineering to Officers' Training Camp for Coast Artillery here. Course began April sixth to last three months. Request that you give full publicity and inform those who might be interested. Will keep you informed.

LT. T. D'A BROPHY.

TRACK EVENTS

Freshmen Trim Sophomores in Cross-Country, 30-27

Last Saturday afternoon the freshman cross-country team defeated the Sophomores by the score of 34 to 27. The time of the winner was 15 minutes, 35 seconds, over the route from the Institute buildings across Harvard Bridge, along the river to the Cottage Farm Bridge, across that and back to the Institute on the Cambridge side of the Charles.

McMahon '20 was the first to complete the course, and was followed by Dorr '20 and Stone '21. The freshman captured the greater number of the first positions, some of the runners, especially Noyes '21 and Jenny '21, showing up very well in the final count. There were forty entries in the cross-country race of whom the greater part were freshmen.

The track team will engage in a dual meet with the Naval Aviation School next Saturday afternoon at 3.30 o'clock. The events which will be competed in, in this contest are as follows: 100-yard dash; 220-yard dash; 40-yard dash; 880-yard dash; one and two mile runs; high and low hurdles; high jump; broad jump; shot put; hammer throw; pole vault, and discus throw.

For the benefit of those men taking track, who will not enter the dual meet, a handicap meet will be held, also on Saturday afternoon at 1.30 o'clock.

The annual interclass track meet will be held on Friday, April 19, at 10.30 o'clock in the morning. This meet will be open to all Institute men, regardless whether they have been taking track or not.

JUNIOR WEEK CALENDAR

TUESDAY, APRIL 16
Technique Rush—1.00 p. m.
Crew Race—4.30 p. m.
WEDNESDAY, APRIL 17
Musical Clubs Spring Concert—Hotel Somerset, 8.30 p. m.
THURSDAY, APRIL 18
Tech Show, "Let 'Er Go"—Northampton, 2.15 p. m. and 8.15 p. m.
FRIDAY, APRIL 19
Spring Track Meet—10.00 a. m.
Junior Prom—Copley-Plaza Hotel, 9.00 p. m.
SATURDAY, APRIL 20
Tech Show, "Let 'Er Go"—Boston Opera House, 2.15 p. m. and 8.15 p. m.
MONDAY, APRIL 22
Tech Show, "Let 'Er Go"—Somerville Theater, 8.15 p. m.

The Tech

Established 1881

Entered as second-class matter, September 16, 1911, at the Post Office at Boston, Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachusetts Institute of Technology.

MANAGING BOARD

Paul C. Leonard '17.....Chairman of the Board
Donald D. Way '19.....General Manager
Count B. Capps '20.....Managing Editor
Lincoln B. Barker '21.....Circulation Manager

Subscription \$1.50 for 53 issues, in advance. Single copies 3 cents.
Subscriptions within the Boston Postal District or outside the United States must be accompanied by postage at the rate of one cent a copy. Issues mailed to all other points without extra charge.

News Offices, Charles River Road, Cambridge, Mass. News Phones, Cambridge 2600; Tuesday and Thursday after 7 p. m., Cambridge 6265. Business Offices, Charles River Road, Business Phone, Cambridge 2600.

Although communications may be published unassigned 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

H. V. Howes '20.....Night Editor
R. H. Smithwick '21.....Assistant Night Editor

WEDNESDAY, APRIL 10, 1918

THE THIRD LIBERTY LOAN

THE Third Liberty Loan campaign presents two problems to the workers. The first is to get all the subscriptions possible; the second is to get subscriptions of the right quality.

Modern warfare involves the maximum possible contribution to the labor and natural resources of a nation. The available labor and material resources are fixed within relatively narrow limits. In order to do our part in this war, the existing labor supply must be transferred, in as great a degree as possible, to the production of materials necessary for the maintenance of civilian life and the production of war materials in the greatest possible volume.

To the extent that individuals buy unnecessary things, that is, wearing apparel, jewelry and food, they are depriving the Government of labor which can be employed in the production of ammunition, rifles, automobiles, food stuffs, etc., necessary to the maintenance and operation of an army. On this account, the duty of each individual citizen is not only to subscribe to the limit of his ability, but to resolve to pay that subscription out of a reduced expenditure for living purposes. Subscriptions for Liberty Bonds made in this way not only give the Government a means of purchasing war materials, but also releases materials and labor for war uses.

Arrangements whereby bonds may be bought and paid for in four installments, make it possible for subscribers to follow the suggestion outlined above, and no man should hesitate to purchase a bond in this manner, as he will in that way be reserving his capital for other needs.

JUNIOR WEEK

JUNIOR Week is fast approaching, and the nearer it gets the more numerous appear to be the activities which will be in evidence. There will be even more interests than hitherto, as several new organizations have come into prominence during the past year.

When such a program has been arranged every man must certainly feel a desire to support every event he can. This he can do by attending the Show and all the athletic events, including the Technique Rush, which is the most strenuous of them all. We do not urge men to sacrifice themselves by entering the Rush, but suggest that it is an unexampled opportunity for a man to show the stoutness of his heart and the toughness of his hide. Of course no student will miss the Show. If, however, we see a man attending the crew races, and failing to put in appearance at the Show we will know that he believes in getting everything he can for nothing, and we shall immediately brand him as a slacker.

All Technology publications will be out during the week, and each one is striving to put out the best issue yet. You will surely want a copy of each, so write home for you next weekly check to be doubled.

It is said that the band at the Navy School, which parades on Saturday, is competing against the professors' voices. We certainly do get differential equations, and the words of "Over There" terribly mixed.

THE BRITISH TANK

(Continued from page 1)

ous an undertaking. There were even people standing and clinging to the wall in question, and as fast as the police cleared the wall, others in the meantime had scaled it again, so the attempt was finally given up. It is almost a certainty that the tank would have met with very little opposition from the wall.

There were several moving picture operators located in points of vantage from which the entire crowd as well as the deeds of the tank could be photographed. Nearby roof-tops, fire-escapes, windows and all other places which offered a view of the walls were covered with people, and the streets in the rear of the Copley Plaza were packed with humanity. Automobiles aided in making a congestion, and it required several policemen nearly a half hour afterwards to bring the traffic to normal again.

The officers took advantage of this crowd by talking of the Third Liberty Loan and also recruiting. Accompanying the tank was a truck from the Majestic Theatre advertising the play "Getting Together," featuring Blanche Bates and Holbrook Blinn. The proceeds from this play are all given to the British and Canadian armies.

It required the full width of the street in order to turn around, but the tank whirled on its own tread and ambled off down the streets to its garage, turning in its own length.

At a signal that the tank was about to make its first plunge against the wall, the police cleared a square, but the crowd pressed in so close and there seemed to be some danger that the tank would swing about and strike some of them. One of the mechanics gave a glance around and Capt. Richard Haigh gave a signal to which the tank responded by swinging about on one of its runners and as gently as a turntable could have accomplished it headed for the brick wall.

Capt. Haigh stepped aside and the tank started for the wall, not with a ramming effect as one would expect, but just a gentle push, and as it rose up slightly on its runners the wall split up and went crumbling down in a mass of crushed bricks and mortar. This feat was received by wild cheering, in which Brig.-Gen. Johnston and his staff, who were among the eye-witnesses, joined.

At small look-outs in the front were the grinning faces of the two "chauffeurs," and they made ready to take yet another wallop, but by this time the contractors, who felt the jar of the crumbling walls and realized that the tank was about to go over the top, called a halt in the activities.

Many students of the Institute were present to witness this further destruction of their old home, and it is to be conjectured how so many happened to have a free period at that particular moment! There was no visible sorrow expressed on the part of the students and it is almost certain that whatever sorrow they might have felt at seeing the walls which once sheltered them torn down by the monster was more than outweighed by their gratitude for the magnificent buildings which they now occupy.

AVERAGE OF 500 ATTEND

T. C. A. DISCUSSION GROUPS

Sixteen Faculty Leaders Meet in Caf Weekly for Discussion

As far as attendance is concerned, the discussion groups conducted by the Technology Christian Association, have exceeded the most sanguine hopes of those who worked to organize them. Four Caf groups have been running for three weeks, with an average attendance of twenty-five men. Fifteen fraternities have cooperated and an average of ten have been attending each discussion weekly under the leadership of one of the instructing staff of the Institute. Four groups were organized in the dormitories and have had an excellent record. The average weekly attendance is estimated to be 400. The total number of men attending the various groups is close to 500. If these figures are placed on a percentage basis, they run somewhat low as compared with those of smaller schools; but in comparison with similar large institutions they rank well. When one considers the almost innumerable difficulties encountered at Technology, the results are eminently satisfactory, for, as President MacLaurin says, "The Institute is not well enough organized to make it easy to get together for such discussions."

That so many of the professors and instructors have been willing to take the time out of an unusually busy year to prepare for and lead these groups is an indication of the importance and the real reason for the success of the project. Each Friday noon these leaders gather at lunch in the Caf and discuss the more difficult problems in advance. Dr. Elmer A. Leslie, of Epworth Church, Cambridge, presides at these meetings. The members of the faculty now leading groups are Professors Aydelotte, Bugbee, Burton, Haven, Hayward, Lipka, Norton, Pearson, Rogers, Wickenden, and Williams, and Messrs. Crosby, Kneeland, McJennett, Marks and Prescott.

Discussion groups on "What we are fighting for" are accomplishing the desired results, as shown by the attention that has been given to them outside of Institute circles. Under the caption, "Getting Below the News," the "Boston Herald" comments most favorably upon this recent innovation in university circles. In the last issue of the "Independent," President Lowell of Harvard has an article under the exact title chosen for the subject of the discussion groups at Technology.

In part the "Herald" says, "The plan could well be taken up by older persons and in less academic atmospheres. The results have repaid the effort. Students

(Continued on page 2)

Out of their Own Mouths THEY ARE CONDEMNED

Here is a protest of a German soldier, an eye-witness of the slaughter of Russian soldiers:

"It was frightful, heartrending, as these masses of human beings were driven to destruction. Above the terrible thunder of the cannon could be heard the heartrending cries of the Russians: 'O Prussians! O Prussians!'—but there was no mercy. Our captain had ordered: 'The whole lot must die; so rapid fire.'"

It is only because our French and British allies have held the line that such horrors have not been witnessed in New England.

THE THIRD LIBERTY LOAN lets you help defeat barbarism SAVE TO BUY

LIBERTY LOAN COMMITTEE OF NEW ENGLAND
Liberty Building, Boston

Riverbank Court Hotel

Located Opposite Institute of Technology

CAFE WITH TABLE D'HOTEL AND A LA CARTE SERVICE
SPECIAL DINNER AT 545-75 CENTS

Menus Submitted for Banquets Dutch Room for Dances and Assemblies
Dinner Dances from 6.30 to 11.00

Telephone 2680 Cambridge

SIMPLEX WIRES AND CABLES

USE STEEL TAPED CABLES FOR OUTDOOR LIGHTING

TWO STEEL TAPES
APPLIED SPIRALLY
IN OPPOSITE DIRECTIONS
GIVE MAXIMUM
PROTECTION

SIMPLEX WIRE & CABLE CO.
MANUFACTURERS
201 DEVONSHIRE ST. BOSTON
CHICAGO SAN FRANCISCO

BACK BAY NATIONAL BANK

109 MASSACHUSETTS AVE.

Commercial Accounts, large or small are solicited

Savings accounts go on Interest Monthly at

4½%

RHODE ISLAND TOOL CO.

WILLIAM C. DART '91, President

MANUFACTURERS OF

BOLTS, NUTS, CAP AND SET SCREWS,
SCREW MACHINE PRODUCTS

QUALITY FIRST

PROVIDENCE, R. I.

L. PINKOS

CIVIL AND MILITARY
TAILOR

338 Washington St.,
Boston, Mass.

Harvard Square,
Cambridge, Mass.

ARMY, NAVY AND AVIATION

Uniforms to order at short notice

At Riverbank Court,
Evenings 5 to 7

I invite your
inspection



J. T. GARDNER '17 AND D. J. S. COLDWELL '19

TECH SHOW

(Continued from page 1)
connected with the Show that the rehearsal probably will not last until twelve o'clock at night as was previously supposed. The management also takes this time to announce that food will be supplied for all those connected with the Show at the Opera House on Sunday at the proper time.

At the recent rehearsals of the orchestra too many tardinesses. For the final fa too many tardinesses. For the final rehearsals which take place from now on it is expected that these will be noticeable only for their scarcity. The following men of the cast need not appear for the five o'clock rehearsals of the M. I. T. Orchestra: Davidson, Nelles, Dooley and Wolfson.

The Ballet is being coached by Madame Mushietto, who was the instructor

of Virginia Tanner. The Ballet has reached a point such that it is practically ready to go on the stage. The story of the Ballet is briefly as follows: An old haggard Witch, all bent over with the toil of years, hobbles across the stage. She is followed by six wood nymphs who dance about her, chiding her for her ugliness. In the course of the dance the Princess of the nymphs enters, and as she too dances, chiding the old witch, her own grace and beauty contrast strangely with the ugliness of the witch. Finally the wood nymphs dance away, and only the witch and the Princess remain. Still the latter will have nothing to do with the old witch, despite her entreaties, when suddenly the witch casts aside the disguise and becomes in an instant a handsome young Prince. Then follows a dance which causes great admiration, in which the Princess calls back her nymphs and the

ballet ends with a tableaux in which the Prince and Princess are encircled by the nymphs. When one realizes that this ballet takes place in a garden just at the dawn of day, some idea of the beauty of the scene may be imagined. The fact of the success of the Ballet was well shown by the applause accorded it by the rest of the members of the Show.

This year the Tech Show will set an example as in previous years for all college theatricals. The knowledge of the Tech Show is not only passed on by Technology men, but by the other people who have admired and supported the Show, most notable among these people being the students of Smith College at Northampton, Massachusetts. After the customary performance at Northampton, there will be two performances at the Boston Opera House and one in Somerville.

Take This Chance to Serve Technology and Gain Some Real Newspaper Experience

There are positions open on both the editorial and business staffs of the New Volume of



On the editorial staff you will have a chance to get acquainted with your Institution and its activities, and will gain valuable experience in writing clear English.

On the business staff you will gain experience in management, and have an opportunity to meet big men in and out of Technology.

CALL AT THE TECH OFFICE ANY DAY AT FIVE

**Iron :: Steel :: Metals
Arthur C. Harvey Co.**

374-394 Congress Street BOSTON, MASS.

TELEPHONE, MAIN 7000

**TOOL STEEL SHEET IRON BOILER TUBES
PLATE STEEL CONCRETE RODS METAL LATH
SOLDER COPPER ZINC**

We Are Equipped to Cut to Length Anything Carried in Stock

DISCUSSION GROUPS

(Continued from page 2)

who did not know a casus belli from a modus vivendi, who could not say whether Montenegro adjoined Ukraina or tell the Rhine from the Rhone, who had but the foggiest notions about Hague conventions and international law, who have never guessed how war must bear on manufacture, commerce, education, birthrate, juvenile delinquency and public peace, have not only made acquaintance with the maps of Europe and Asia and with the main sweep of European history in these fateful sixty years past, but have gained a clearer understanding of all that war means and of all that peace must presuppose. Real war calls for clear thinking on a hundred points not mentioned in the manuals of arms. We owe to ourselves and to our cause the study of this war until we understand it."

It is doubtful if at any other time in the history of the world it has been so difficult to understand the meaning of what is happening, or when so many traditional institutions were swaying in the balance. Is Bolshevism a menace or a forward movement? Is the British Labor party in earnest in talking of the abolishment of the institution of private capital, or of the international government of Africa? Is government control of industry in America a tendency or a temporary war measure? What does Chairman Hurley of the Shipping Board imply when he says that the delay in shipbuilding is due to managerial incapacity? Does he agree with the "New Republic" that our boasted Industrial Generalship has broken down? Is Theodore P. Shonts, president of the Interborough Rapid Transit Co. of New York City, prophesying a new industrial order when he says, "If our democratic institutions are to endure, labor and capital must get together and work out their joint salvation. The brains of capital and the brains of labor must combine in an unselfish, harmonious effort. The old order changeth, giving place to the new." These are the questions that are before the discussion groups. They are not conducted as an old fashioned Sunday school class, as some have misconceived them. To be sure, Christian principles are not taboo, and if they apply or are brought up they are as frankly and as unapologetically considered as anything else.

Are you reading the series of instructive talks on hydraulic pressure that appear on page 3 in each Saturday's issue? Each of the series contains interesting points that will help you to a better understanding of the subject.—Adv.

MUSICAL CLUBS

(Continued from page 1)

Y. M. C. A. authorities have arranged to have the orchestra give another demonstration. This will take place probably some weeks after Tech Show and will contain the best pieces of the show in addition to the latest popular music of the season.

The Combined Musical Clubs will give their annual spring concert at the Somerset Hotel on April 17. Tickets were placed on sale on Tuesday of last week and may be obtained at the Harvard Cooperative Society. The price of admission to the concert and dance is two dollars without the war tax, which the management has agreed to pay. With every pair of tickets sold, a preliminary dance order will be given out. The Banjo Club is under the direction of R. Blood, and the Mandolin Club under the direction of H. Hedlund. The Jazz Band will make its appearance at the concert in several novelty numbers. The program of the spring concert follows:

1. Take Me Back To Tech Combined Clubs
2. Bostonian March Banjo Club
3. Little Tommy Went A-Fishing Glee Club
4. Xylophone Sola Carlton T. Proctor '20
5. Leave It To Jane Medley Mandolin Club
6. Bill The Bomber Lawrence Conant '21
7. Broke, Broke, Broke Glee Club Quartet
- W. H. Hedlund '20, C. L. Eksergian '20
P. W. Carr '18
9. Selected Jazz Band
10. Mister Sunshine Glee Club
11. Selection, "Going Up" Banjo Club
12. Cardinal And The Grey Combined Clubs

BRIGHT COLORED APPAREL FOR WAR SUFFERERS NOT DESIRED

Bright colored garments are no longer accepted by the Red Cross in this country for shipment to the needy in France and Belgium. In times of peace neither the children in those countries nor their parents commonly wear bright hued apparel, and now with almost the entire population in mourning, such articles of dress are quite distasteful. The garments that the Red Cross is making are in sombre shades such as browns, dark blues and grays. Those made of red, green or yellow goods, for example, cannot be sent to these countries. All apparel is now being made according to patterns which follow the native

costumes as closely as possible, and is of standard material.

However, in the future people making garments for the inhabitants of the war-stricken countries are advised to use the darker colors such as are mentioned above.

AMERICAN UNIVERSITY CLUB OF CHINA HAS 300 MEMBERS

The American University Club of China is composed of nearly three hundred graduates and former students of American universities, who are now living in China. The membership is about equally divided between Chinese graduates of American universities who have returned home to China, and of Americans who are engaged in the various business, educational, medical and missionary enterprises that Americans are conducting in the Republic of China.

The club was organized in 1903 and the membership has grown steadily. The purpose of the club is to stimulate a closer feeling of fellowship on the part of American college men who are living in China and also stimulate a closer fellowship among Americans and Chinese which is so necessary to the future peace and well being of the Pacific.

Approximately 1200 Chinese graduates and former students of American and European Universities have now returned to China. More than half of this number have been educated in America and their records since returning to China show that their education has not been in vain. In practically every line of endeavor in China, engineering, railroad management, manufacturing, education, medicine, business, and governmental service they are to be found in positions of trust and responsibility.

There are now about 7000 Americans living in China and the last few years has been a great stimulus in the growth of American business and other interests of China. Since China is now being rapidly modernized along Western or American lines the American University Club desires to emphasize the importance of a closer study of questions dealing with the Far East on the part of American colleges and universities. It also desires to call the attention of American young men and women to the possibility of becoming of service to America through a closer study of world-wide affairs and questions, especially those dealing with the Far East.

American college students or professors desiring special information on subjects dealing with China and the Orient are urged to communicate with the American University Club, Shanghai, China.

INTER-FRATERNITY CONFERENCE

At the last meeting of the inter-fraternity conference, the awarding of the scholarship trophy was discussed. Since it is impractical to obtain the individual marks of each man from the registrar, every fraternity will turn in the record of its members. A certain number of points is assigned to each mark, and the house obtaining the highest total will receive the award. The trophy is a large grandfather clock, which the winning fraternity will keep in its house for one term or as long as it maintains the highest standard of scholarship.

This idea has been carried out successfully in many colleges. At Amherst the competition is very keen. The non-fraternity faction there may also win the prize, in which event, the trophy is placed in one of the common rooms about the college. It has been shown in some institutions that the advance in fraternity scholarship has been noticeable, especially the first year the plan is instituted. It will doubtless work out to advantage here and inspire many men to do better work.

CHAMPIONSHIP MEET

On Friday afternoon at 4.30 o'clock the freshman Individual Championship Swimming Meet will be held at the Boston Y. M. C. A. Both senior and junior freshmen are eligible. The events will consist of the dive, plunge, 50, 100 and 220-yard dashes. The first four places will count 5, 3, 2 and 1 points respectively, and the man securing the highest number of points shall be declared winner.

Two Banking Offices in the Back Bay

Massachusetts Ave., Corner Boylston St.
Copley Square, 579 Boylston St.

STATE STREET TRUST COMPANY

Main Office, 33 State St.

All Walker Memorial Dining Rooms

Are Open to All Tech Men NOW

Open Daily and Sunday

TECHNOLOGY TO AID IN FRENCH AND BELGIAN RELIEF

T. C. A. Requests Students to Contribute All Old Clothes

The recent drive of the Red Cross to collect clothes for the relief of Belgians and French has re-emphasized the unprecedented need for clothing of every kind and condition for these destitute people. Since Easter and approaching Junior week has made necessary the new spring suit, shoes and gloves, the T. C. A. is making a drive next week to secure those articles which have been replaced. Murray Whitaker '20 has been placed in charge of this important work. Collectors will canvass the dormitories, and automobiles will call at all fraternities on Friday evening. Men rooming in town and the commuters are urged to bring clothes to the T. C. A. office.

The utter destitution of these people, the great lack of raw materials, cotton, wool and leather make it imperative that every article of cloth or clothing, every piece of leather be saved for them. Even though things need mending or could only be used for mending other clothes they should nevertheless, be sent to the office. For instance, shoes that are too worn to be used further can be used to mend other shoes, as every scrap of leather is valuable. Practically everything except linen collars and straw hats is urgently needed.

Many other schools have been making such collections ever since the war began. This is the second collection that Technology has attempted. Many difficulties are in the way and the men do not have many extra clothes, but now the need is so great these obstacles must be overcome.

FACULTY HALL NOW USED AS CLASS ROOM BY STUDENTS.

The demand for more space for the schools that Technology is conducting for the United States Government in the existing war emergency caused the hall devoted to Faculty meetings to be invaded by classes today. The immediate reason for this was the requisitioning for barracks for the use of the Army Aeronautical School of one of the class rooms in the department of Civil Engineering. The regular classes of students in the department were therefore transferred to the Faculty room, which was speedily fitted up for a class room.

When one year ago last September Technology moved to its new site in Cambridge, it had an abundance of room and an opportunity for its student body to increase in proper measure without the congestion that had for a number of years been the characteristic of the quarters on Boylston Street. Within eight months of its establishment in the new buildings war was declared and almost immediately the Government, finding that the use of existing institutions was the speediest way for the preparation of large groups of men necessary in military and naval work and in the merchant marine, placed its schools at various colleges in the country.

From its interest in aerodynamics which extends back half a dozen years and has resulted in courses already under way in this specialty at Technology, the local aerodynamical school of the Signal Corps was established here. For barracks, the museum of Civil Engineering and its adjoining tower class room were taken at first, and as the school increased in numbers, the basement of the building was fitted up with shower baths and lavatories, and other barracks were established on the upper floors of building L at the corner of Massachusetts Avenue and the Riverway. One floor was taken for offices of administration.

As a patriotic duty the instructing force of Civil Engineering gave up their offices in this building and crowded themselves in other sections of the Department. The section became very military in its aspects with sentries pacing before the doors, classes in uniform marching into and out of the class rooms and at frequent intervals, assembling in military formations in DuPont Court.

As the school increased in size, more and more demands were made for barracks and class rooms, so that today there are each week more than 400 assignments to halls and rooms purely for class purposes, to say nothing of the entire wing devoted to administration and barracks. The demand for barracks has increased of late, and Professor Spofford, head of the Department of Civil Engineering found one day that one of his large class rooms in the section paralleling Massachusetts Avenue had been commandeered for barracks, and space was of necessity to be found elsewhere. Thus it is that the Faculty room has for the term of the war, been turned over to class room needs. The Faculty will use Smith Hall, room 10-250, for its meetings.

The story of increase in the needs of the army is equalled by that of the navy. It is the only school of the kind maintained by the Navy, so that the growth of men has not been unforeseen and has been cared for without diffi-

CAPT. SELSKAR M. GUNN '05 CONDUCTING THE FIGHT ON TUBERCULOSIS IN FRANCE

Assisted by Mr. Phillips S. Platt of Yale in Work of Educating People to the Danger of Disease

Word has just been received by Professor Sedgwick of the Department of Biology and Public Health from Professor Gunn of the same Department, but who is now in service in France, that the fight against Tuberculosis is progressing at a rapid rate. Professor Gunn, who now ranks as a captain, has been serving ever since last summer as a member of the Mission Americaine Antituberculeuse de France, and has been giving especial attention to the education of the French people in regard to sanitation and the prevention of tuberculosis. This Mission is a subdivision of the International Health Board maintained by the Rockefeller Foundation, a Board which is carrying on health work in various countries all over the globe. An example of the vast extent of its work may be gained from the fact that at present it is conducting a campaign against the hookworm in the southern portion of the United States, some of the islands of the Pacific, and in places as remote as China.

Among other means adopted by Professor Gunn in his campaign was that of several travelling motor cars completely equipped with motor-generator sets to furnish light for the moving picture apparatus.

In addition to serving as a member of the Mission he is one of the Associate Directors of the American Antituberculosis Commission in France, and his work is very largely in sanitary education, a subject in which he is highly expert, since he was for some time in charge of similar work for the State Department of Health of Massachusetts.

While connected with the State Board of Health of Massachusetts, Professor Gunn traveled all over the state lecturing and otherwise educating the people as to the dangers, the prevention and the cure of tuberculosis, and he is now using similar methods in France.

A beginning was made not many months ago in the city of Chartres, where stands one of the most famous cathedrals in the world, and where there seemed to be a favorable opportunity for beginning a campaign of education. Public meetings were held, with the Mayor and local authorities participating. Diagrams, lantern slides, and moving pictures were shown, and a careful follow-up campaign inaugurated. The next place to be attacked was Chateaudun, somewhat south of Chartres, and at last accounts a fresh anti-tuberculosis campaign had been launched at Rennes in northern France.

Closely associated with Professor Gunn is Mr. Phillips S. Platt, a Yale graduate, who was a graduate student in Biology and Public Health at the Institute in 1913, and was afterward connected with the Hoover Relief Commission in Belgium and with the U. S. Embassy at Petrograd. Mr. Platt is now a Captain in the service of the American Red Cross, having special charge of the campaign in France for the prevention of infant mortality.

Professor Gunn lately cabled for assistants, but owing to the lack of men, Professor Sedgwick was unable to send him anyone from the Department. He has, however, succeeded in finding in Boston a young French officer, who having been honorably discharged because of

injury. When the Navy School of Aeronautics was established last summer, the Institute already had the army school and a group of Naval Ensigns. The latter were quartered in the tower rooms on the east side of the Great Court. When the Naval aviators came they were berthed in the upper stories of the same buildings and remained there throughout the summer.

When autumn came both the Naval schools felt the need of more room, and for that reason it was deemed best to transfer the school for Ensigns to Harvard.

At the same time there was due the regular registration of students, for whom the halls and drawing rooms used for sleeping quarters by the sailors would be necessary in the pursuance of regular studies. The Naval Aviation Detachment was therefore moved to the Walker Memorial, which was given up as a club house by the students and faculty for whom it was built.

The spacious halls and gymnasium of the Memorial were filled with sailors, the receiving rooms taken for administration, and the Service Building in the rear, which during the construction of the Institute had sheltered the architect's force of draughtsmen, was turned into class rooms. Constant increase in the number of men in this school made it necessary for the Institute to hire the Tech Block, a commercial building on Massachusetts Avenue, and convert it into barracks, while a new structure for two hundred men will be ready for occupancy next week.



CAPTAIN S. M. GUNN

his wounds, is ready to return and will, it is believed, become a very efficient helper for Professor Gunn and Mr. Platt.

On March 12 a public meeting at Rennes was addressed by the Cardinal, immediately followed by Professor Gunn (whose "Allocution" was of course in the French language) and ended with a lecture by Dr. Bruno of the Roosevelt Hospital in New York. The Mission was presented by Dr. Follet, president of the Bureau for the Prevention of Infant Mortality. At the close the orchestra played the "Hymes Nationaux Americaine et Francais," and cinematograph views were shown bearing on the cause and prevention of tuberculosis.

Professor Gunn and Mr. Platt have devised many novel and amusing posters, postcards, placards, circulars and the like, a selection of which Professor Sedgwick has on view in his office at the Institute. Particularly interesting is one of the postcards which is covered with a group of individual pictures showing the ways in which tuberculosis gets its start. It is interesting to note that methods worked out in the first instance for the prevention of tuberculosis in Massachusetts are now being employed with much success in northwestern France,—another illustration of the way in which the war is bringing together the Old World and the New.

Professor Gunn, who graduated from Course VII with the class of 1905 was associate professor of Sanitary Biology and Public Health before going to France. He served for a time as editor of the American Journal of Public Health, one of the country's most important publications of this kind, and proved to be as efficient a worker and administrator as any of his predecessors, much to the pleasure of all his friends. At another time he served as Health Officer of Orange, N. J. His entire record in Health work has been an excellent one, and it is not in the least surprising to hear of the unusual success with which he is carrying on the work in France.

In less obtrusive fashion Technology has been caring for other important government schools. Professor Burton has been put in charge of the schools for deck officers of the U. S. Shipping Board, and in addition to establishing one in every large port of the country, Dean Burton has carried on a very lively work in dozen Institute walls. Here about a dozen schools for these men have followed one another, and at the present moment, four of them are housed together in the Refrigeration laboratory, where under four different teachers, competent old salts are very quickly transformed into capable deck officers ready for the vessels which are to form the merchant marine. When these vessels leave their yards they will find waiting for them not only these deck officers, but men instructed also in the laboratories of Technology by Professor Miller, who will be able to direct intelligently the activities of the engine room.

ITALIAN ENGINEER PROPOSES USE OF CONCRETE AS ARMOR

Coincident with the report of the success of the first concrete vessel which only recently slid down the ways into the sea comes advice in the form of a suggestion from an Italian naval engineer that we use concrete for as many different purposes as possible on vessels of all kinds, even warships. As an example of the various ways in which concrete could be used this engineer proposes the use of reinforced concrete

Collins & Fairbanks Co.

Young Men's Hats, Coats, Caps, Gloves, Aviation Helmets, Hoods, Caps, Leather Coats

ENGLISH TWEED NORFOLK JACKETS AND GOLF JACKETS
383 WASHINGTON STREET BOSTON

instead of steel as an armor plate for warships.

His plan involves equipping a vessel with three coats of concrete, the outer one being richest in cement and hardened by chemical treatment. The materials suggested are Portland cement, sand and basalt or porphyry, broken to pass through a coarse screen. It is said that this makes a material unusually hard when the individual hardnesses of the various materials are considered, and makes a good substitute for the steel which is needed so much elsewhere.

CREWS OUT FOR INTERCLASS RACES ON TUESDAY, APRIL 16.

The several class crews have been on the river for the past two weeks, with a fair number of candidates appearing for the practices. The freshmen have about fifty men out regularly for their crew, under the direction of Coach Stevens, and their management foresees good prospects for the interclass meet and the other contests of the season. Freshmen races are now being arranged with Exeter, Huntington, Brookline High and other schools.

The annual Spring Class races will be held on Tuesday, April 16, at 4:30 o'clock in the afternoon. The race will be over the regular course, starting from the Cottage Farm Bridge and ending at the float in front of the Institute buildings. Class numerals will be awarded to the winning crew.

The Junior and Sophomore crews have not shown up well up to this time, and the management hopes to see more men out for the regular practice work on the shells. A coxswain is needed for the Junior eight. The following men are to report for the Junior Crew practice this afternoon at 5:00 o'clock at the boat house.

The practices are being held as follows: Wednesday 4:15 o'clock; Thursday, Friday freshmen 5 o'clock Sophomores, 5:15 o'clock Juniors; Saturday, 1:45 Juniors, 2:30 Sophomores, 3:15 freshmen.

MANY NEW BUILDINGS BEING CONSTRUCTED AT INSTITUTE

The presence at Technology of the great Government schools, whose combined numbers are probably not far from a couple of thousand, makes necessary considerable new construction. At the present moment there is being built along the Ames street side of the grounds a barracks for the Naval aviators. This building will soon be ready for occupancy. It is a standard barracks, 160 feet by 43, with a separate house for showers and toilets.

In order to care for the refectory needs of the constantly increasing detachment of Naval men as well as for the swelling number of Army aviators, some additions have been made to the Walker Memorial. At the back of the building a wooden ell will furnish additional kitchen facilities together with more refrigeration, while a little cabin built on the eastern terrace of the Memorial will provide more room for machinery in the handling of dishes, etc. Meanwhile the building becomes more and more at the service of the Government through the use of the bowling alleys and adjoining basement rooms for storage purposes.

On Monday morning next ground will be broken for the new seaplane hangar, which is to conform in every particular to Navy specifications, and will cost some \$45,000. It will be 200 feet in length by 93 in width and 24 feet in the clear, with a roof in two semicircular springs. The floor will be of concrete, but the building will be of wood with wooden trusses for the roof and regulation doors. It will extend east and west in the lot, directly back of the mining building and parallel to the athletic field. There will be room in it for from six to ten seaplanes.

The new hangar will be just east of the airfield which was recently built for the use of the Army Aeronautical School. North of these buildings the line of sheds parallel with Vassar street is continually growing, having for their uses the study of motor trucks and of gasoline engines, propellers and other aeronautical apparatus. The wind tunnel is in this company and also some storage sheds, making a fairly large village of wooden structures.



STONE & WEBSTER

FINANCE public utility developments.

BUY AND SELL securities.

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.

CONSTRUCT either from our own designs or from designs of other engineers or architects.

REPORT on public utility properties, proposed extensions or new projects.

MANAGE railway, light, power and gas companies.

NEW YORK BOSTON CHICAGO



Complete stock of

Drawing Materials

Manufacturers of

BLUE PRINT PAPER

SPAULDING—MOSS CO. Drafting Room Furniture

Tell Us Your Requirements Catalog on Request

A. H. Spaulding '14

Cambridge Radio School

Day or Evening Classes Private Lessons

166 Prospect Street Corner of Broadway

MILITARY SCIENCE BULLETIN

At the military science lecture last Monday afternoon, Major Edwin T. Cole, U. S. A., Professor of Military Science, announced a new schedule of drill and lecture for the freshman regiment. Hereafter the First Battalion will have its lecture on Monday afternoon from 3:00 to 4:00 o'clock, and drill from 4:00 to 5:00 o'clock on Monday and from 3:00 to 4:00 o'clock on Thursday. The Second Battalion will have a lecture on Friday from 2:00 to 3:00 o'clock and drill from 4:00 to 5:00 o'clock on Monday and 3:00 to 4:00 o'clock on Tuesday. The change is for the purpose of having the whole regiment attend the drill on Monday afternoon.

TECHNIQUE

Anyone can pay the final \$2.00 on Technique from 1:30 to 2:00 any day this week, as this will help the board and save the subscriber's time. There is always a big rush for books after the rush, and a big line forms. By paying the final sign-ups before the day of the rush, this trouble will be evaded.

FOUND ARTICLES

The following articles may be reclaimed by calling at the office of the Superintendent of Buildings and Power: 1 black woolen glove; 1 pair gray woolen gloves; 1 blue woolen scarf; 1 gray mocha glove; 1 pair khaki woolen gloves; 1 gray silk scarf; 1 gray and black striped silk scarf; 1 pair bonerimmed spectacles; 1 celluloid protractor; 1 metal protractor; 1 steel six-inch urle; knives.