

TECHNOLOGY TIED BY NAVY IN SWIMMING

First Contest in Three Years
Which Institute Team Has
Not Won Ends in 25-25 Tie
Score

UNTERSEE WINS 100-YARD DASH

Last Saturday afternoon marked the first time in three years that the Technology swimming team has not been victorious in a meet with other colleges, for it was held to a 25-25 tie score by the strong team of Annapolis Academy at the latter's tank. The work of the Institute team has been markedly weak this year, in comparison with the two previous years, due to the lack of competitors for the various events. Captain Untersee starred for the visitors by winning the 100-yard dash and the 440-yard dash, in addition to taking second place in the 40-yard back stroke and engaging in the 160-yard relay.

The meet was the most hotly contested that the Institute team has had this year, and was said to have been the closest that has been fought in the Annapolis Naval Academy Gymnasium. The first event of the meet, the 160-yard relay was easily won by the Navy team, but from then everything was fought for by the Technology team.

The 100-yard dash was a stirring race, as Francis of the Navy took the lead at the start, Untersee catching up with him at the finish and winning the race by a hair. Goggins of the Navy team was a close third in this event, the other Institute men making rather a poor showing.

The summary of events was as follows:

160-yard relay—Won by Navy (Dickins, Francis, Lambdin and Goggins); Technology (Untersee, Porcher, Trowbridge, and Young).

Plunge for distance—Won by Crowell (Navy); Wales (Technology) second; Campbell (Navy) third. Distance, 60 ft. Time, 33 seconds.

440-yard dash—Won by Untersee (Technology); Dickins (Navy) second; Goggins (Navy) third. Time, 20 1-5 seconds.

220-yard swim—Won by Greene (Technology); Bolan (Technology) second; Thompson (Navy) third. Time, 2 minutes, 44 3-5 seconds.

40-yard backstroke—Won by Post (Navy); Untersee (Technology) second; Wales (Technology) third. Time 25 1-5 seconds.

100-yard dash—Won by Untersee (Technology); Goggins (Navy) second; Francis (Navy) third. Time, 59 2-5 seconds.

PRACTICAL INSTRUCTION FOR FUEL ECONOMY

Course To Be Run by Institute Instructors

Simple, practical instruction in how to economize coal in Massachusetts industry will soon be made available by the Department of University Extension, State Board of Education.

James A. Moyer, director of university extension, today announces that a class will be organized in the course in power plant economics which will meet in room 109 State House, on Monday evenings. The first lecture will be given on Feb. 4 next at 7.30 p. m. The course is expected to be of statewide importance in fuel conservation work.

"The principal object we seek," said Mr. Moyer, today, "is distribution of easily understood information on how to obtain the full worth of every pound of coal or fuel used in industry. Lack of this knowledge has cost the state a big annual wastage in fuel.

"Necessity, such as we are now experiencing, reduces waste of course; but the best method of preventing waste is instruction in ways and means of obtaining the most from fuel, and this instruction is contained in the course."

The course will be given by D. E. Eames, mechanical designing engineer, Lockwood, Green & Company, and J. J. Eames, instructor in mechanical engi-

PROM COMMITTEE TO BE CHOSEN

Nomination Papers Due Monday in
Information Office

The elections for the Junior Prom Committee will be held on Friday, February 15, in the main lobby. Since the unanimous approval by the Alumni Council of the continuation of all existing activities including Junior Week, the Junior Prom is now a surety.

All nomination papers must be handed in to the information office not later than Monday, February 11, at 5.00 o'clock. Nominations must be signed by at least ten Juniors who have paid their student tax. The Prom Committee will consist of five men. Although there have been no actual plans made for the Prom, it will not be as elaborate an affair as has been the case in past years, owing to present conditions.

TRACK MEN TO ELECT CAPTAIN

All "T" men must cast their ballots today for the election of a track captain for the coming season. The ballot box will be open all day in Coach Kanaly's office in the track house.

JR. FRESHMAN DINNER

Dean Burton, Mr. Kanaly, Major
Cole and K. Reid '18 to Speak

A dinner for the Junior Freshmen will be held tomorrow evening in the Walker Memorial at 6 o'clock. It is in the interest of all the new men who are entering the Institute in February to be present.

The speakers, who have all gone down in the history of the Institute as the staunch friends of the freshmen, will outline the student activities and some of the more important customs and policies of the Institute as a whole which lead to a quicker acquisition of the "spirit of Technology."

Dean Burton will be one of the most important speakers of the evening and will give a brief sketch of the history of the Institute. Mr. Kanaly, track coach and in charge of the department of Physical Training, will outline the opportunities afforded new men on the track team and also explain the importance of gymnasium work and the competition for the Cabot Medal for the greatest physique development in the coming term. Major Cole is the third representative of the Faculty who will welcome in the new class. Major Cole will explain the military situation at Technology which has, in the past year, developed into one of the Institute's greatest problems.

K. Reid '18. will be the only representative of the under-graduate body to address the new men. His talk will be regarding the student activities and he will outline the competitions now running and the opportunities afforded freshmen activities. Owing to the present conditions many men, who have been active in Institute affairs have answered the call to the colors and the chances for advancement in activities are particularly marked for new men.

meeting in the Department of University Extension and at Technology; lectures and discussions on modern problems in power plant design and operation. Particular attention will be paid to the saving of fuel.

The course will be of particular benefit for mechanical, electrical, heating and ventilating engineers, draftsmen and superintendents of power plants. The course will include lectures and discussions of power plant location, boiler plant, equipment, methods of firing, arrangement of heating surface, specifications for purchasing coal by contract, conveyors, piping, engines, turbines, condensers, economizers, pumps, flanges, records and economics. There will be no charge for tuition in connection with the course, only charges for text books. Further information may be obtained by applying to the department at the state house.

KOMMERS SMOKER TO BE HELD FRIDAY

Coach Duncan of 1917 Show to
Explain Various Parts in 1918
Show—Title Also to be An-
nounced

EVERYONE INVITED

Following the custom of many previous years the annual mid-year Kommers Smoker will be held next Friday evening, February 8, at 7.45 p.m., but this year the event will be held for the first time in the main dining hall of the Walker Memorial. This event constitutes the beginning of actual work on Tech Show 1918 and serves to arouse interest in the Show among the student body. The Smoker will be in charge of General Manager Hutchings, who will announce among many other things the title of the Show, and the music and lyric writers. The time of the try-outs and the first rehearsal will also be announced and announcements will be made concerning the poster competition and the competition in the stage department for freshmen and Sophomores. All men intending to try out for the Show in any capacity are expected to be present and the management will make an effort to familiarize them with the character of the production and the duties of those who will be connected with it.

Everybody at the Institute is requested to starve up for this occasion as it is a well known fact that at all Tech Show Smokers there is always an abundance of refreshments, not to mention the smokes. This smoker will prove no exception to the rule and the committee is making a special effort to supply smokes enough to satisfy all, hoping that the much overworked and nearly worn-out phrase "Gim-me a cigarette" will not be heard around the institute during the week following the smoker.

The management has been very fortunate in securing entertainment for the evening. Three Stars from last year's Show, "Charlie" Parsons, "Dick" Harrington and John Coldwell, will be the main attraction of the evening while the Banjo Club and the Glee Club Quartet will also add to the evening's enjoyment.

The chief speaker of the evening will be Coach Duncan, an Amherst graduate, who will outline and explain the characters of the Show, to give the men an idea of what the parts will be. Just who else will be present is not yet certain, but it is safe to say that several men connected with past Tech Shows and all the members of this year's management will be present so that everyone may be sure of plenty of dope regarding what has been accomplished towards the Show up to the present time and what the prospects are for the coming season.

The big event of the evening will be the announcement of the title of Tech Show 1918. In previous years it was the custom to announce the author and title of the Show at the Fall Smoker, but this year on account of the uncertain condition of all the undergraduate activities at the Institute the management found it impossible to follow the usual custom. Some time ago E. D. Harrington, '18, was announced as the author of the book but no title was given. Then the management decided to withhold the title until the mid-year smoker, and it will be made public Friday night.

NOTICE TO JUNIORS

On Friday, February 9, the Junior Picture will be taken on the steps of the Walker Memorial. This is the picture that will appear in the Technique 1919 and the Board urges every Junior to be present.

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

TECHNOLOGY RUNNERS WIN THEIR EVENTS IN B. A. A. GAMES

Red and Gray Wins "Long" and "Short" Relays—
Freshmen Also Take Event From
Holy Cross Four

NAVAL AVIATORS WIN RELAY

THE Technology representatives at the B. A. A. meet made a very creditable showing last Saturday night at the patriotic games held in Mechanics Hall. In the relay against Harvard, Technology, after the first lap, had little trouble in keeping a fifteen yard lead to the finish. In the "long" relay the Red and Gray won from Dartmouth. The freshmen also won from the Holy Cross yearlings in a well contested race which was spoiled only by an unfortunate "spill" in which the Holy Cross runner was badly hurt.

Technology had the pole, but Evans of Harvard got the first corner and the crimson held this little advantage until Avery '18 of Technology jumped Goodwin of Harvard, on the last lap of the second relay. From then on it was merely a ding dong affair. Downey, '20, of Technology, old English High athlete, opening up a mile on Lewis, Harvard anchor, and winning by 15 yards in 3:20 2-5.

The "long" relay between Technology and Dartmouth started out and seemed to have the makings of a fast race, was spoiled on the third relay when Page of Dartmouth dropped his baton in a neck-and-neck race with Halfacre '18. The Institute won easily after this with a lead of three-quarters of a lap. In the freshmen race between Technology and Holy Cross, Technology had the pole and Holy Cross was penalized at the start for a steal. As the second corner of the last lap and relay, Dignan of Holy Cross made a spurt and closed in on the ten-yard lead held by Bawden '21. The two runners collided and both fell and Dignan was badly injured. The race then went easily to Technology.

The Naval Aviation team from the school at Technology also won its event from the Ambulance quartet from Allentown, Pa. W. Rollins, the former informal football coach from Harvard, starred in this event and as "anchor" man for the aviators won on the last relay.

The summary follows:
Harvard (L. B. Evans, W. H. Goodwin, D. G. Duggan, B. Lewis) vs M. I. T. (T. W. Bossert, J. M. Avery, Palmer Scott, J. F. Downey)—Won by M. I. T. Time—3m. 20 2-5s.

Dartmouth (G. H. Macomber, H. C. Avery, D. W. Page, C. F. McGaughran) vs M. I. T. (Geo. S. McCarten, O. G. Barden, G. F. Halfacre, H. A. Herzog)—distance 780 yards to a relay—Won by M. I. T. Time—7m. 35 2-5s.

Holy Cross Freshmen (D. Mullin, John King, J. Mahoney, Dignan) vs. M. I. T. Freshmen (H. P. Junod, L. W. Conant, C. L. Stone, G. Bawden)—Won by M. I. T. Freshmen. Time—3m. 33 2-5s.

M. I. T. Naval Aviation (H. A. Jones, R. Talbot, W. P. Hahn, W. Rollins) vs. Isaacs Allentown (Cann, Bliss, Burke, Breen) vs. Newport Naval Station (H. Angel), T. Hall, W. P. Hickey, J. B. Taylor)—Won by M. I. T.; second, Isaacs Allentown. Time—3m. 19s.

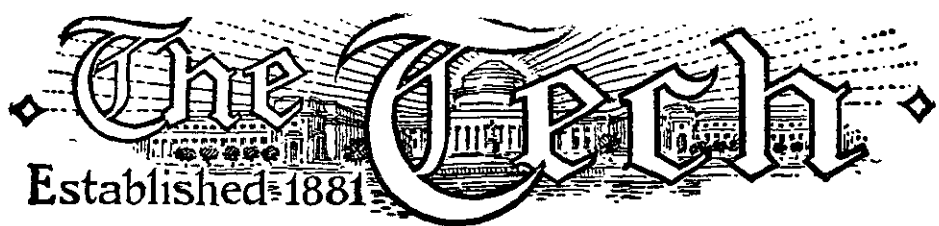
SENIORS TO HOLD INFORMAL DANCE

Tickets May Be Purchased in a
Few Days

There will be a Senior informal dance held in the Walker Memorial on Saturday evening, February 16. On account of the Fuel Administrator's rulings the dance will start at six o'clock and will last till eleven. Supper will be served at eight o'clock after which dancing will be resumed. The time of starting is early, but in order to have a dance of the usual length, an early start is essential. Tickets will be out in about two days and may be purchased immediately from VanKirk, Howe, and Collins '18. The tickets will cost two dollars and will entitle the holder to supper and dance for himself and partner.

ORCHESTRA REHEARSAL TO BE HELD TOMORROW

There will be a meeting of the Technology Orchestra Thursday afternoon at five o'clock in the "Caf" in Building 2. This is the first meeting of the second term, and the management hopes to see a large attendance, as the rehearsals for the Tech Show will soon commence. As in former years the Technology Orchestra will play at the Tech Show performances, the music being entirely originated by Institute men. The work of the second term will be coached at times by Mr. Howard who also has the songs of the show under his direction. The members of the orchestra are urged to be present at the Kommers Smoker which will be given next Friday night.



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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, FEBRUARY 6, 1918.

TO THE JUNIOR FRESHMEN

JUNIOR FRESHMEN, you are now entering upon one of the most important periods of your life. You are about to start upon that training which will shape the course of your whole future life, and your ultimate success depends largely upon the success you make of that training. You are entering Technology as immature youths, and you will leave as well rounded men. Make the most of your time here, to prepare yourselves for valuable citizens as well as efficient engineers. The most important point is the start. Do your work well from the beginning and you will be working to good advantage; let your work pile up, and you will soon be hopelessly engulfed. The only policy with which to pursue your studies is to do each day's work as it comes.

The one great criticism of Technology is that the curriculum devotes too much time to purely technical subjects, and not enough time to those studies which tend to broaden the mind. This is made necessary on account of the tremendous amount of training which the engineering profession demands, and it is up to each individual student to make up for himself the lack of general studies. The various student activities offer unlimited opportunities for experience in business, journalism, theatricals, and dealing with men, and every one of you new freshmen should compete for a place on one of these activities. In this way, you will gain far more from your life at the Institute than the man who spends all his time with his books.

Another very important consideration is that of physical welfare. The rigorous course of studies is more of a strain on the student's health than in any other college, and this fact is too often neglected. Be careful to keep yourself in good physical trim from the start, and take as great a part in the athletics of the Institute as you can.

ROWING

THE Technology Rowing Association is issuing a call for all men interested in rowing. Here is an excellent chance for a large number of men to obtain highly beneficial exercise, and at the same time help Technology to turn out a successful crew. No man should feel that lack of previous experience prevents him from entering this sport, as often times a new man will prove to be a better oarsman than a veteran. The one essential asset consistent, and never tiring practice.

Don't forget to help the Institute conserve coal!

Welcome, freshmen!

ALL-COLLEGE RALLY TO BE HELD IN OPERA HOUSE

February 16 Picked as Date for All-College Rally

In order to conform with the Garfield fuel conservation regulations the executive committee in charge of the "All College" rally to be held this month in the Boston Opera House has postponed the date of the meeting to Feb. 16, one week from next Saturday.

The rally was originally set for Lincoln's birthday, but the committee decided to change the date rather than ask for an extension from the regulations which require darkened amusement houses on that day.

The following colleges, through the secretary of their alumni associations

or through other officials, have pledged their support to the rally which will be held for the benefit of the American University union headquarters for college men and their friends in Paris:

Amherst, Bates, Boston College, Boston University, Bowdoin, Brown, Colby, Cornell, Dartmouth, Georgetown, Hamilton, Harvard, Haverford, Holy Cross, Johns Hopkins, Lafayette, Lehigh, Massachusetts Institute of Technology, New Hampshire State, Norwich University, Oberlin, Ohio State, Purdue, Princeton, Rochester University, Syracuse, Trinity, Tufts, University of Chicago, University of Illinois, University of Maine, University of Michigan, University of Minnesota, University of Pennsylvania, University of Vermont, Wesleyan, Western

(Continued on page 3)



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:

Is the Institute to have a crew this spring? If so, who is captain, and who is manager, and to whom should a candidate report. Very truly,

C. B. H.

Plans are being made for a crew this spring. Max Untersee '19 is captain, and M. A. Laucks '18 is manager. All men interested should meet Thursday, February 7, in Room 4-1108.

Several questions have come in lately which it was thought inadvisable to print. These questions have been answered by mail, and The Tech will gladly do the same in other cases.



DARTMOUTH COLLEGE—The Dartmouth alumni round-up this year will be "different." Officially described as a reunion, mess and camp-fire, the event will be staged in Symphony Hall on Friday evening, Feb. 15. In order to comply with the regulations of the Fuel Administrator, the festivities will begin at five o'clock and "sand will be thrown on the fire at ten." This schedule alone makes the occasion a rare one, because "everybody there will be able to get their trains home without missing anything." Executives of five New England states, including Governor McCall, will be the guests of the evening.

UNIVERSITY OF CHICAGO—Official announcement is just made at the University of Chicago of the registrations for the winter quarter. In the Graduate School of Arts and Literature there are 149 men and 149 women enrolled, a total of 298; and in the Ogden Graduate School of Science, 163 men and 63 women, a total of 226, making the whole number registered in the graduate schools 524.

In the senior and junior colleges of arts, literature and science, including the unclassified students, there are 845 men and 827 women, a total of 1672 for the colleges.

In the professional schools there are 150 divinity students, 252 medical students, 117 law students, 284 students of education, and 190 students of commerce and administration, a total of 993 in the professional schools.

The total attendants for the university, exclusive of duplications, is 1497 men and 1407 women, making a grand total of 2904, a loss of between 18 and 19 per cent as compared with the corresponding quarter a year ago.

UNIVERSITY OF IOWA—Iowa City, Io., Feb. 4. (Special) Thirty-eight per cent of the freshman men who entered the liberal arts college of the State University last fall are working their entire way, 35 per cent are partially self-supporting, and only 27 per cent are dependent entirely upon their parents for support. This means that out of 424 boys, 309, or 73 per cent, either support themselves entirely or partially. The same proportion holds in most of the other colleges on the campus, it is believed.

UNIVERSITY OF WISCONSIN—What the war has done in opening up new fields of work for women, especially for college graduates, will be the general theme of the sixth annual vocational conference of women students to be held at the University of Wisconsin Feb. 28 to March 2.

During the three-day meeting a number of women who have been successful in various lines of work will talk to women students with a view to opening up the possibility of careers in the various fields and of directing women into fields to which they are fitted. Special conferences to enable the wo-

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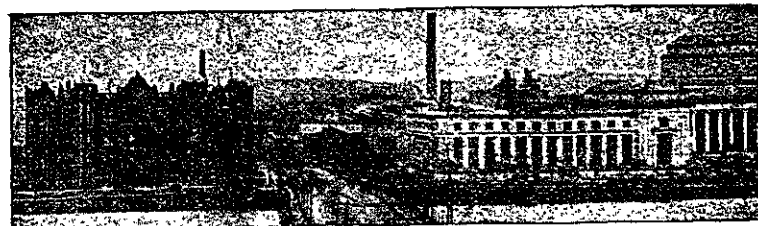
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men students to talk to the speakers personally are an important part of the conference.

Among the vocations that will be considered are commerce, journalism, secretarial work, social service work, public health service, pharmacy, industrial work, opportunities in Civil Service.

COLUMBIA UNIVERSITY—The new Columbia University clubhouse at 4 West 43d street will be opened next Thursday with a dinner and house warming. The Columbia club is one of the last to follow in the up-town movement of the college clubs of the city. The doors of the old clubhouse at 18 Gramercy Park have been closed, and in the interval the mem-

bers have been enjoying house privileges of the Yale and Harvard clubs.

The new club house has more than one hundred sleeping rooms, arranged singly and in suites. A dining room on the main floor is elaborately decorated with murals depicting Columbia scenes. These were painted under the direction of James M. Hewlett. Over 250 guests can be accommodated in this dining room. Leading off from it are luncheon rooms and private dining rooms. A large library on the floor above will be used for meetings. On the top floor just above the bedrooms are four squash courts. It is expected that some of the more important tournaments of the coming season will be held on the new courts.

TECHNOLOGY BUREAU
UNIVERSITY UNION

Telegram
Paris, Jan. 7, 1918.
The Technology Bureau of the American University Union in Europe sends to you the season's greetings and wishes you the very best that the New Year can bring to you in everything. In behalf of the President and Faculty of the Massachusetts Institute of Technology the student body, the Alumni and the Paris Bureau.
Signed. Van Rensselaer Lansingh
Robert M. Allen.

J. B. Rollins '11 Succeeds J. P. Munroe
Last summer various activities of the Alumni Association relative to war work were concentrated in one Committee of which Mr. J. P. Munroe was Chairman. This included such undertakings as the Paris Tech Club, The Washington Bureau, the work at Boston, the Women's War Auxiliary, etc. and under Mr. Munroe's able guidance this work was brought to a high state of perfection. Owing, however, to Mr. Munroe's appointment to the National Board of Vocational Education which has now become one of the great features of war work in the United States, he was compelled to give up his active Tech work and Mr. James B. Rollins of '11 has been appointed to take his place.

Christmas Presents
At Christmas time a package containing a thermos bottle with strap and some cigarettes was sent to all Tech men in the field who were on our mailing list at that time. This present was possible through the kind and thoughtful generosity of the M. I. T. War Auxiliary and Mrs. J. C. Melvin of Boston. Men not on active service received a pocket diary and cigarettes. Letters of acknowledgment should be sent to the Committee M. I. T. War Auxiliary, Rogers Building, 491 Boylston Street, Boston, Mass., those to Mrs. Melvin care of the Committee. Of course all letters sent care of this office will be forwarded.

Letters have been received from quite a few men saying that the glass in the thermos bottle was broken. A supply of these glass parts will be kept on hand at the Tech Office and whenever men whose bottles were broken are in Paris they can have a new one or if some friend comes in it can be taken out. It would be almost impossible to send this glass by express or mail without breakage. However, remember when you are in Paris another bottle will be given you.

Personals
Sergeant R. C. Jacobs, Jr. '10 and Corporal E. W. Van C. Lucas, Jr. '16 of the 14th Ry. Engineers have been ordered to an officers' training school, in France.

Paul de Blois Lighton '95 has gone to Salonique with the American Red Cross.

Charles W. Loomis '16 of the 14th Ry. Engineers has been detailed to duty in Paris.

G. W. Root '19 has returned to the States.

F. W. Holmes and Franklin L. Kline spent their permission in Paris.

H. B. Allen '18 and J. R. Milliken '18 have been sent to an aviation training camp in France.

J. B. Franks '15, L. T. Hill '17, James M. White '14 and Gordon White '14 have been in Paris recently.

N. T. Ashkins '15 is at Red Cross Hospital No. 3 in Paris having broken his ankle by a fall. He is getting along nicely and hopes to be out very soon.

D. A. Reed, Jr., is still at Dr. Blake's hospital, recuperating from the grippe.

George Maverick '16 and D. K. E. Ber Jr. '16 have been in Paris recently.

Notice
The family of Gauthier-Vignal, who attended the Institute about the years '12, '13 and '14 and who has since fallen on the field of honor, is very anxious to get in touch with any men who knew him at the Institute. Will any men who knew him please communicate the fact with their name and present address to this office.

Announcement
The M. I. T. War Auxiliary has sent many valuable and useful supplies to the Paris Bureau for distribution among Tech men, so far these things have been given to men when they drop into the office here, this being much the most satisfactory way of distributing them, as the men can pick what they like and also when necessary try articles for size. However, if any men are in need of any of the following articles they will be sent them (as far as the supply goes) upon request to this office. Supplies on hand at present: knitted sweaters (heavy and light) socks, sleeping socks, helmets, slippers, wristers, a limited supply of towels smooth and rough; pneumatic pillows, mufflers and

CALL FOR WINTER
ROWING PRACTICE

Captain Untersee '19 to Speak to Candidates

The first meeting of all men interested in rowing will be held on Thursday, February 7, in Room 4-108, at which time plans for the winter practice will be announced. At the last meeting of the Advisory Council it was decided to maintain Athletics at the Institute as much as possible, consequently the crew management are doing everything within their power to make this season a successful one without interfering with the newly organized intensive courses and military drill.

Every man who has had any experience as an oarsman or is interested in the sport should make it a point to attend this first meeting. Captain Untersee will address the candidates and Manager Loucks will announce all plans and the preliminary schedule for the rest of the winter and spring. At this time particular stress is being made on the point that previous experience is not the only essential for the making of a good oarsman. A man who has not had any experience at all may turn out to be as good an oarsman as a man who is quite experienced. The chief requisites are constant, faithful practice and "stick-to-it-iveness."

Arrangements have been made with Mr. Kanaly for the substitution of crew work instead of the regular freshmen gymnasium. All freshmen candidates who desire to make this substitution must first report to Mr. Kanaly personally and then report to the crew management at the first practice. Attendance will be taken daily at practice and the freshmen must report at least three times a week in order to obtain a satisfactory gymnasium record.

The winter work of the oarsmen plays a very important part in the training mapped out by the management. All experienced men will get their muscles into condition so that they can start hard work in the shells as soon as the river is clear of ice. The green men will learn how to handle their oars and the fundamentals of rowing. Such training will be invaluable to all the oarsmen when the river work is started. Coach Stevens will be on hand at all practice hours to instruct the men and will be ably assisted by Captain Untersee.

The first winter work will consist of road work for the first two weeks in order to properly condition the men for practice on the machines. The machines are now being repaired throughout and will be placed at the Institute for the convenience of the candidates. Work on the machines will continue until the ice breaks up and is clear of the river. Regular practice will then be held at the boat-house.

Watch the Tech and all bulletin boards carefully for further announcements, especially the board opposite the Bursar's office. Every man is urged to be at the crew meeting on Thursday, and to decide to come out for crew helping it to be one of the real large sports at the Institute.

NOTICE
There will be an important meeting of all members of the advertising staff of The Tech in The Tech office at 5.00 o'clock today.

pajamas. Write early and avoid the rush!

Tech Dinner
The regular monthly Tech dinner scheduled for the first Saturday in January was not held owing to the closeness of the Christmas and New Year holidays and attendant festivities. However, a dinner will be held the first Saturday in February and all M. I. T. men are urged to be present. Further details will appear in a later issue of the bulletin.

New Registrations
Thos. A. Roper '10; Chas. W. Lawrence, '16; H. Hoffman Kennedy, '05; Walter B. Littlefield, '16; Gardner E. Johnson, '18; Willard C. Brown, '16; Edmund C. S. Bigelow, '20; Rafael Alfaro, '16; Edgar I. Williams, '08; Donald A. Fowle, '15; D. K. Este Fisher, Jr., '16; George M. Maverick, '16; Austin L. Macdonald, '13; Willard E. Bonnell, '17; Paul H. Lazenby, '04; N. D. MacLeod, '14; Albert Holmes, '10; Leonard P. Wood, '01; Russell Suter, '00; Lynn A. Loomis, '09; Wilfred A. Wyld, '16; Dudley Clapp, '10; Harold P. Gray, '16; Gerald B. Howard, '12; P. H. Withington, '95; Richard E. Hefler, '15; Chas. P. Kerr, '11; Wm. C. Kerr, '10; Wm. J. Mixer, '02; George Sutherland, '16; Mervin W. Bliss, '16; E. W. Holden, '18; Samuel Serwall, '17; Benj. W. Guppy, '89; Wm. R. Mattson, '13; Gordon Stewart, '20; Clarence B. Rogers, '13; Elton D. Walker, '00; Maurice R. Scharff, '09; James L. Taylor, '02; Edward B. Richardson, '98; John F. Foley, '13; Walter T. Spalding, '10; John C. Tyler, '17; Gordon W. White, '14; J. Sidney Marine, '17.

SECRETARY DANIELS ISSUES STIRRING
MESSAGE TO ALL COLLEGE MEN

Annapolis Cannot Meet Demand For Officers—
Need Greater Than For Ships
and Guns

A stirring message to college students who have joined the Navy and to those who expect to enter the service has been sent out by the Secretary of the Navy, Hon. Josephus Daniels. Mr. Daniels points out that the Naval Academy at Annapolis cannot supply the demand for officers, and he looks to the young men of American universities to respond to the nation's need in this crisis. He said in his message:

"It is vital to a powerful navy to have powerful guns and powerful ships, but they are only so much well fashioned steel unless they are manned by officers and men with trained minds and hands, with steady nerves and heads. We have today in the Navy all the men we need until ships under construction and repair are furnished and put in commission. The gravest need therefore, is for officers who know how to sail a ship, how to man its guns, how to organize it to fight.

"The Navy's reliance upon the Naval Academy for educated and capable officers in peace times is well placed. Since the war begun this fine institution, unsurpassed in the world, has been doubled, but today its facilities are inadequate to graduate officers as rapidly as they are needed.

"But all the normal sources of officers combined did not serve to give as many as the expanding Navy needed, and we turned with confidence to the civilians with love of the sea and some knowledge of seamanship to qualify themselves for command. Before war was declared there were some reserve officers who had shown talent and are giving good evidence of ability, but many of the men initiated into the glorious company of naval officers came direct from civil life, and upon their willingness to learn, their swiftness and their aptitude we must depend for a large increase in the numbers of those

who are to be given command of our ships.

"The Navy has given warm welcome to college students and college graduates. I wish I could personally shake hands with each college man who has entered or will enter the service. I would like to say to each:

"You will touch here with the stimulating traditions dear to all who love the Navy.

"Your country has confidence in you. You will justify that confidence in proportion as you master the work which you are entering. Its rewards come only to those of good courage whose minds are wholly given to the mysteries of modern fighting craft.

"I am empowered officially to welcome the youthful defenders of our country. You come as citizens called to duties of citizenship in time of war. When civil liberty is at stake, civilians become warriors. So, today, the Republic has gone to war!

"As you may be called into service you will go to the fleet, to the patrol, to the transports, to whatever duty you will be assigned with the feeling that you have shown that civilians can do whatever there is need for them to do.

"You are engaged in a righteous war, and when faith in right shall triumph over faith in might, as it surely will, you will share with the veterans of the Navy the gratitude of a people who have never looked to their Navy in vain.

"I do not know what particular service you will be called upon to do. I cannot lift the veil. One thing I do know, however, and that is that you will be worthy of the noble work into which you may enter. May the All-Wise Providence give you of His strength to bear the world to an early peace—a peace that shall insure justice and right alike to all peoples and all nations."

ALL COLLEGE RALLY
(Continued from page 2)

Reserve, Williams, Worcester Polytechnic Institute and Yale.

Chairman Louis E. Cadieux of the executive committee has named the following committee to have charge of the rally:

Executive Committee—Louis E. Cadieux, Amherst chairman; Creed W. Fulton, Cornell, secretary; William V. Kellen, Brown; Benjamin Loring Young, Harvard; Daniel J. Triggs, Holy Cross; George S. Miller, Tufts; Howard W. Kendall, Wesleyan; Warner Marshall, Yale.

Attendance Committee—George S. Miller, Tufts, chairman. Miles Greenwood, Bates; H. L. Perry, Boston University; George B. Bullock, Brown; F. G. Getchell, Colby; Charles Jackson, Harvard; A. H. Davis, Lehigh. Dr. E. W. Gaynor, Norwich; Merle G. Summers, Ohio State; W. P. Hosmer, Princeton; A. L. Evans, Syracuse. J. B. Shearer, Trinity; L. W. Marsh, University of Illinois; A. E. Lewis, University of Vermont; A. O. Weld, Worcester Polytechnic Institute.

Decoration Committee—Daniel T. Triggs, Holy Cross, chairman; Ray D. Hunting, Amherst; E. T. Foote, Cornell; Donald G. Robbins, Massachusetts Institute of Technology; C. S. Scott, Wesleyan.

Finance Committee—Warner Marshall, Yale, Chairman; E. J. Fegan, Georgetown; Fay Simmons, Middlebury. E. R. Hurst, University of Michigan; H. C. Dever, University of Pennsylvania; Fred R. Hurst, Williams.

Programme Committee—Benjamin Loring Young, Harvard, chairman; T. D. Lavelle, Boston College; E. C. Adams, Boston College; Joshua Clark, Dartmouth; Herbert Dana, Massachusetts Agricultural College; Harry E. Sutton, University of Maine.

Publicity Committee—Howard W. Kendall, Wesleyan, chairman. J. C. Minot, Bowdoin; J. Ernest King, Williams.

Reception Committee—William V. Kellen, Brown; Hon. Charles A. DeCourcy, Georgetown; Francis R. Hart, Massachusetts Institute of Technology; Professor Bliss Perry, Williams.

A trust company recently announced the receipt of \$635 contributions to the Surgical Dressing Committee. Some people seem to get paid for dressing!

NEW SYSTEM TO
DISPOSE OF SEWAGE

Figures, based on the trials of the city of Boston and the Institute, show that the institution of plants for the extraction of grease, fertilizer, ammonia, and glycerine from the sewage would be a profitable investment and an advisable war time measure from all points of view.

If the Moon Island station is taken over by the government, it is estimated that millions of dollars can be saved by the adoption of the Miles system of treating sewage. Representatives of the various war boards,—the War Department, the United States Food Administration, and the Council of National Defense—are considering the matter to determine whether or not money now appropriated for war purposes can be used for an investigation. If it cannot, Congress will be asked to appropriate one or two millions of dollars to operate the Moon Island plant.

The extraction of three hundred forty-five tons of glycerine and twelve hundred fifty tons of ammonia, and the acquisition of six thousand and nine hundred tons of grease and of twenty-five thousand tons of fertilizer are said to be perfectly practicable according to the new plan. All of these are badly needed to help along the war, and there is now an unprecedented demand for fertilizer due to the great increase in farming and gardening.

As a result of the activities of Congressman Richard Olney, and James A. Gallivan, and Mayor Peters of Boston in behalf of the plan, a conference will be held at Washington between Dr. Taylor, assistant secretary of the Agricultural Department, a representative of Mr. Hoover, the food administrator, and these Boston experts: George W. Miles, chemist; D. J. Danker, and Odin Roberts of Technology.

Results obtained at the experimental plant which has been maintained for some time past at Calf Pasture in Dorchester are summarized as follows by Robert S. Weston consulting engineer and assistant professor of public health engineering at the Institute. "The Miles acid process has thus been shown to possess many advantages as a method of sewerage disposal for cities like Boston, namely:


"(1) It disinfects the sewage by reducing the numbers of bacteria from millions to hundreds per cubic centimeter.

"(2) If the drying of the sludge and the detracton of the grease can be accomplished economically, it is probable that a large part if not all of the cost of the acid treatment may be met by

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the sale of the grease and fertilizer recovered from the sewage.
"(3) The use of so strong a deodorizer and disinfectant as sulphur dioxide would prevent the usual nuisance of treatment works. The experiments have shown that the sludge can be held at the works for four days during the heated season without giving offensive odors, while the effluent is inoffensive and stable enough to be discharged into Boston Harbor without the slightest probability of creating a nuisance.
"(4) The addition of sulphur dioxide to the sewage also avoids any fly nuisance which is a handicap to the operation of the Imhoff tanks and trickling filters. This fact, with the absence of odor, would be a great advantage to any plant located at Moon Island, and would probably cause a great appreciation in value of the surrounding property."
Local engineers have been in consultation with the government authorities for some time concerning this scheme
(Continued on Page 4)

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DISPOSE OF SEWAGE
(Continued from Page 3)
which has been a matter of experimentation here for a period of about twelve of fourteen years.
This system of using the sewage to advantage was advocated by Mr. E. S. Borr, a graduate of Technology, in an address before the officers and students of the Biological Department of the Institute in January, 1915. It is also upheld by Henry W. Sanborn, former superintendent of improved service of the Boston Sewer Department, and by Timothy Callahan, superintendent of the sewage plant at Moon Island. If the idea is realized, the work will be put in charge of Boston engineers and experts from the Institute.
The present system used in Boston is as follows. There are four large storage tanks at Moon Island which together hold fifty millions of gallons. These are opened twice every day, one hour after the tide begins to go out. The odor at these times is extremely offensive and makes it very disagreeable for the people a mile or two to the leeward.
The proposed plan which is not only economic but hygienic would begin by injecting sulphurous acid into the sewage, just before it reaches the tanks, in the proportion of one ton of gas to one million gallons of sewage. "The cheapest source of the acid, according to Professor R. S. Weaton, "is undoubtedly pyrite, which when roasted in a furnace of proper construction produces sulphur dioxide. This is a gas which may be fed directly into the sewage, in which it would dissolve, forming sulphurous acid
"The addition of the sulphur dioxide precipitates most of the grease together with the greater part of the suspended matter. The resulting sludge is dried, extracted with a solvent to recover the grease and the remainder is prepared for fertilizer. An important sanitary feature of the treatment is that the sulphur dioxide is a strong disinfectant, so that the acidified sewage contains few bacteria. It also contains but little suspended matter. Consequently, the supernatant liquid may be discharged into a body of water like Boston Harbor without producing any nuisance.

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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The following telegram was rushed from the Washington office of the M. I. T. Committee for National Service marked "Publish without fail": "... Men having railroad experience in location, maintenance, or operation, communicate with Washington office at once. State experience, age, draft status, etc. Men having commissions but still in active duty most wanted although others will be considered. R. W. Ferris, Secretary."

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