

## NEW HYDRAULIC PUMP NOW IN LABORATORY

New Worthington Centrifugal Pump Tested in Hydraulic Laboratory—"Big Brook" Supplies Great Quantities of Water for Experimentation

### 350 HORSEPOWER DEVELOPED

Steam was let in for the first time to the great new pumping outfit of the hydraulic laboratory last week, a machine that demands about 350 horsepower. The inspection of the system emphasizes the bigness of the proposition, which is neither more nor less than laboratory apparatus designed to give the student experience in the handling of water in truly commercial quantities. It is a large mill that demands 350 horsepower, yet the flow of water that the pump delivers to its canal two floors above uses more power than that which is demanded to drive the majority of mills scattered over the country. This power is devoted purely

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## SUNDAY SAVED FROM EMBARRASSMENT

G. Radcliffe Stevens '17 Heads Trail-Hitters

When Billy Sunday called for "trail hitters" at Student Night at the Tabernacle last Friday, and at first few responded, G. Radcliffe Stevens, Technology '17, led the way. After that incentive, students from practically all the other colleges walked down the sawdust trail and shook hands with Billy Sunday. Harvard, Wellesley, Simmons and other colleges were represented among the "repentant sinners."

The title of "Reverend" Billy Sunday's sermon to the students was "Sampson," and his description of the manner in which Sampson was shorn of his locks caused much hilarity. Sunday had an opportunity to knock the liquor interests and all the evils connected with them. He warned the students again liquor, yet when the call was issued to go up to the "pulpit," the students did not at first respond, and it was only after an example was set by "Rad" Stevens that other college students "hit the trail." Among the seven thousand present, Technology was well represented, about seven hundred students braving the snowstorm to hear the evangelist.

## DARTMOUTH INVITES COMPETITION

Technology Men May Enter Events of Winter Carnival

The invitation comes from Dartmouth to Technology men and students of New England colleges to participate in the events of the intercollegiate ski and snowshoe meet which will be held in connection with the winter carnival to take place February 8-10.

Contestants will have all expenses paid while they are in Hanover, and receive tickets to all events.

Students interested may gain further information at Chi. Phi. B. B. 3515, or may communicate directly with Mr. R. E. Adams, secretary of the Dartmouth Outing Club, Hanover, N. H.

## ICE HOCKEY THIS WEEK?

The men reporting for hockey practice last week were not numerous, and the management feels that it is imperative that all candidates come out for field hockey regularly in order to get into condition. An unsuccessful attempt to flood the new rink was made last week. Yesterday this was tried again, and it is probable that the squad will be able to start ice hockey before the holidays.

## ARCHITECTURAL ENGINEERS

At a smoker held Friday evening in Rogers, Professor Lawrence, head of the Architectural Department, spoke to the society on "Option 2, How and Why."

## POINTERS ON H. C. L.

Dr. Laidler to Speak to Students on High Cost of Living

Dr. Laidler will speak on "The High Cost of Living" in Room 2-190 at 1.30 this afternoon. The speaker, who has been engaged by the M. I. T. Forum, has studied the economical condition of the country closely, and has compiled statistics showing how conditions could be improved. The Forum has extended an invitation to all Technology students to be present.

## 1919 ELECTORS HELD UP

Election of Committee Delayed by Christmas Rush

The ballots for the election of the 1919 Technique Electoral Committee, which were due in the Caf at noon last Saturday, may be polled at any time before 2 o'clock tomorrow afternoon. This extension of time was made necessary by the late delivery of the mails due to the Christmas rush. Although ballots were mailed to every member of the Sophomore class Tuesday night, many had not been received by Saturday morning.

All members of the class of 1919 who have paid their class dues are entitled to vote, and if any have not received ballots they should report the fact to some member of the class governing board. Ballots were sent to all Sophomores whether or not they had paid their dues.

For the benefit of those who had not received their ballots by Saturday, the ballot box will be left in the Caf until 5 o'clock today. Tomorrow a voting booth will be placed in the lobby of Building 10, where men may vote if they have not received their ballot by that time. This booth will be open from 8.30 until 2 o'clock tomorrow.

The results of the election will probably be announced in Wednesday's issue of The Tech.

## FIRST FRESHMAN SMOKER IN CAF

No Outside Speakers to Be at 1920 Gathering

The first smoker of the year of the freshman class will be held in the Caf Wednesday night at 7.30 o'clock. The entertainment will be provided entirely by members of the class and will include a boxing match, a wrestling match, a banjo, mandolin, ukulele trio, and a quartet, as well as speeches. Refreshments consisting of doughnuts, cider and cigarettes will be served.

There will be no outside speakers on account of Senior dinner coming on the same night. Further details will be announced in Wednesday's issue of The Tech.

## ORCHESTRA AT WORK

The orchestra met for rehearsal last Saturday afternoon and worked on the music for the coming concert, under the direction of Mr. Howard, the orchestra coach. The entire orchestra will meet at 4 o'clock this Wednesday.

Some changes are to be made in positions of the players, so it is desired by the management that all members be on hand promptly.

## SENIOR INFORMALS DUE WEDNESDAY

The Senior informal photographs, and also the statistics of their activities, are to be handed in as soon as possible at the Technique office, in the basement of Building 1. The time limit allowed is the Senior Class Dinner, which comes on the evening of Wednesday, December 20. Most of the informals together with the statistics, have already been turned in, and the rest are desired at the earliest opportunity of those concerned.

## C. E. SHINGLES READY

The Civil Engineering Society shingles are now ready for distribution and may be obtained by those who have paid their dues from A. Winton Caird '18, the secretary.

The next meeting will be held soon after the Christmas recess, probably during the first week.

## SWIMMERS VICTORIOUS

Fast Time at First Meet—Only One Place for Huntington

Winning every first and all but one second, and taking honors to the tune of 48 to 10, the Technology Swimming Team demonstrated its superiority over the Huntington team Friday afternoon in the meet at the Boston Y. M. C. A. pool. The Technology swimmers found the Huntington men easy, and although this was the first meet of the year, all the individual, as well as team events showed good time. Due in a large measure to the good work of Scranton, a new man, in the relay event, last year's record time was broken. The time was last Friday was 2:47.1. The 100-yard dash was the only event in which Huntington could obtain even second position. The summary of events:

25-yard Dash—Pierce, T., 1st; Smith, T., 2nd.  
50-yard Dash—Scranton, T., 1st; Untersee, T., 2nd.  
100-yard Dash—Foster, T., 1st; Jones, H., 2nd.  
200-yard Dash—Bolan, T., 1st; Cutter, T., 2nd.  
Plunge—Wales, T., 1st, 68 ft.; Pelletier, T., 2nd.  
Dive—Stewart, T.

## DIRGE FOR THE BUCENTAUR

Lament Over the Flagship of the Technology Navy

The following parody on "Old Ironsides" appeared Wednesday, Dec. 13, in the "Bazaar Daily," the publication of the Allied Bazaar, edited by Professor Aulo Bates, former head of the English Department at Technology:

OLD PLASTERSIDES  
(On the Technology "Buceaur," wrecked in Charles River Basin, October, 1916.)

Ay, tear her battered statues down!  
Long—long enough—the eye  
Has twinkled at their foolish look  
Against the evening sky;  
About her gloved the red-fire's light,  
And swelled the Technic roar;  
The great Caproni's shop afloat  
Shall plough the Charles no more.

Her deck, once packed with bored trustees,—

That perfect night in June!—  
With bandsmen and with choristers,  
All more or less in tune,  
No more shall bear such precious freight—

Keys, charter, treasured things:  
The "muckers" of the North-West End  
Shall pluck her cherubs' wings!

Oh, better that her leaky hulk  
Should sink just out of sight!  
(Alas, that such a tipsy bark  
Can be so far from tight!)  
If but the flood were deep enough  
For one dark farewell plunge!  
'Tis not—then give the Basin's Queen  
A superheadnought sponge!  
M. A. DeWolf Howe.

## FENCERS TO MEET

On Wednesday at 1.05 o'clock, all men interested in fencing will meet in a room to be announced in Wednesday's issue of The Tech. Negotiations are under way with a good coach to instruct the squad, and a place will soon be determined in which to practice. At the meeting, several officers will be chosen, and the expenses will be determined. Since there are several foils and masks on hand, the majority of the men should find the prices fairly low. No former experience is required, the purpose being not so much to form a team as to derive good pleasurable exercise.

## TO FORM ANDOVER CLUB

On Thursday afternoon at 5 o'clock, there will be a meeting of all Andover men to form an Andover Club, in room 4-108. There are over fifteen freshmen from Andover alone, while in the whole Institute there are probably at least fifty.

## 1920 BASEBALL COMPETITION

Candidates for freshman baseball managership will hand in names to President Nathan by tomorrow.

## SENIOR DINNER TICKETS ON SALE UNTIL 4 O'CLOCK TODAY

Speakers Announced: President Maclaurin, Bursar Ford, Mr. James P. Munroe and Mr. Alexander Klemin — Nearly 250 Tickets Now Out

DINNER WILL START AT 6 O'CLOCK ON TIME

President Maclaurin, Bursar Ford, Mr. James P. Munroe, and Mr. Alexander Klemin will be the speakers at the Senior Dinner Wednesday night. Because of the large sale of tickets, the committee in charge has been able to give the hotel management a satisfactory guarantee, and the time limit for buying tickets has been extended to this afternoon at 4 o'clock. The dinner will start promptly at 6 o'clock and not at 6.30 as the posters around the buildings announced.



J. M. De Bell  
Pres. 1917

Mr. Munroe is Secretary of the Corporation of the Institute, an honorary member of Osiris, a member of the Executive Committee of the Society of Arts, and a member of the Walker Club.

Mr. Klemin is an instructor in the Aeronautical Department of the Insti-

tute. He is Technical Editor of Aviation, and is a member of the Aero Club of Great Britain and Ireland.

Out of the three hundred and sixty members of the Senior Class, nearly two hundred and fifty have obtained tickets, and it is probable that a new record may be set up by a sale of more than three hundred. Tickets may be obtained in Room 1-190 or from the following men until 4 o'clock today: Battis, Brooks, Cristal, Cronin, Doon, duPont, DeBell, Erb, Eddy, Hulburd, Krug, Lowengard, Medding, Miller, O'Brien, Pryor, Roberts, Roper, Swan and Tourtelotte. These men are requested to report to Room 1-190 by 4 o'clock or give their report by telephone. All money must be turned into Lowengard tomorrow by 12 o'clock.

In addition to the Professors mentioned in Wednesday's Tech, the following have accepted the invitation of the class to be present: Dean Burton, Professors Derr, Lawrence, Miller and Vogel.

## ARCHITECTURAL SOCIETY

Two Important Amendments to Constitution Pending

At a meeting of the Architectural Society held in Rogers last week two important amendments were brought up and are to be acted upon at the next meeting of the society, to be held tomorrow.

On account of the small number of men in the engineering option of the Architectural Department, the option 1 society is considering, as an amendment to their constitution, taking in as full members men of the smaller option. Heretofore members of the Engineering Society have been allowed to become associate members, but if the above amendment is adopted the membership privileges will be the same for both options. The other amendment which is now being considered is that of raising the dues to two dollars.

Several trips were discussed at this meeting which are also to be acted upon at the next meeting. Various operations in Boston and the vicinity as well as sculptors' and artists' studios are to be visited soon by the society.

Last Wednesday a dinner was held in Louis' Cafe, on Washington Street, which was open to the members of the fourth and fifth years. Professor Codman of the department, associate of the late Professor Despradelle, and one of Boston's foremost architects, was the speaker of the evening.

## SUMMER CAMPERS TO GATHER

H. S. Wanson '07 and Professor G. E. Russell to Speak

A Romion Smoker of the men in Courses I, III, XI and XV (!) who attended the Summer Camp last summer will be held tomorrow at 7.30 o'clock in the Caf.

Professor G. E. Russell, associate professor in the Department of Civil Engineering, will address the campers.

The other speaker is to be H. S. Wanson '07, who will entertain the campers with his personal experiences at the Mexican border, the conditions and the work encountered by our troops. Mr. Wanson was colonel of the M. I. T. battalion during his last year at the Institute and for three years an assistant in the Military Department. At the time of the calling of the militia to the border Mr. Wanson held the position of quartermaster chief of 8th regiment of the Massachusetts Militia.

## MONTHLY COVER SELECTED

C. T. Wilson '17, Course IV, Submits Prize Design

The new cover for the Technology Monthly Engineering Journal has been selected after keen competition. The design submitted by C. T. Wilson '17, Course IV, has been chosen by the Monthly Staff after considerable deliberation. The designs submitted evidence an unprecedented interest of the students, both in numbers competing and intensity of effort. The real significance of the competition was carefully explained by some of the members of the Faculty, who, at the same time, volunteered assistance.

The prize design will appear on the January issue of the Tech Monthly, which is scheduled to appear next week.

## CHRISTMAS HOLIDAY CUTS

As has been the custom in former years, the cuts taken immediately before and after the Christmas holidays by students living at a long distance, will be held, for future reference, against the record of the person taking them.

## CALENDAR

Monday, December 18, 1916  
1.30 P. M.—Dr. Laidler Speaks on "The High Cost of Living." Room 2-190.  
Freshman Conference, Choice of Course. Prof. Jackson, Course 6. Room 10-275.  
4.00 P. M.—Prof. Wickenden's Discussion Group. Room 4-108.  
T. C. A. Room 4-108.  
5.00 P. M.—Banjo Club. Room 4-108.  
6.00 P. M.—Alumni Council. Technology Cafeteria.  
7.00 P. M.—Alumni Council. Room 2-190.  
Tuesday, December 19, 1916  
1.30 P. M.—M. I. T. Forum. Room 2-190.  
Freshman Conference, Choice of Course. Prof. Goodwin, Course 14. Room 4-108.  
4.00 P. M.—Mr. Kneeland's Discussion Group. Room 2-131.  
Mandolin Club. Cafeteria.  
T. C. A. Room 2-131.  
5.00 P. M.—M. I. T. A. A. Room 2-290.  
7. P. M.—Naval Architectural Society Smoker. Room 2-190.  
7.30 P. M.—Summer Camp Smoker. Caf.