

MANY STUDENTS JOIN IN YULETIDE PARTY

Dr. and Mrs. Maclaurin Please
Large Number of Men Here
During Vacation With Varied
Function

OLD ENGLISH PLAY IS GIVEN

At a very pleasing Christmas party, Dr. and Mrs. Maclaurin entertained on Christmas Eve those students who are remaining here during the holidays. Nearly fifty guests enjoyed this informal function, held in the President's home, which included in its program, reception, drama, music, and refreshments. A modernized dramatization of St. George and the Dragon occupied a major portion of the evening and while enjoying this the audience could glance from time to time through the long windows toward a Christmas tree in the yard, illuminated indirectly with warm red light, while the falling snow gradually covered its decorations.

As the guests arrived they were welcomed by Mrs. Maclaurin. A half hour elapsed in this way and then the party went into the adjoining room to witness the stage production of St. George and the Dragon. It was formerly the custom in England to give this play Christmas Eve, although it is in no way connected with the occasion, the scenes being laid in Ethiopia and the time, the mythical past. Due to Professor Rogers of the English Department of the Institute, we now have a modern version of this play, done in cleverly rhymed verse, with intentional and amusing anachronisms throughout its length. Professor Rogers himself read the lines, while a selected cast of students followed the indicated actions in pantomime. Those taking part were: Cambises, King of Ethiopia, Scott Wells '20; The Dragon, Kosgrove '22; The slave, Garvin Bawden '21.

The costumes were a comical combination of colors and unexpected articles. St. George's only armor consisted of a "tin hat," the protection of a later day. The scenery was shifted without noise or effort, in the imaginations of the audience. The Dragon, transformed by Professor

(Continued on page 3)

SENIOR SUBSCRIBERS TO THE ENDOWMENT FUND Have Largest Average Subscription of Any of the Classes

The names of the students that are subscribed to the Undergraduate Endowment Fund will be published from time to time as space permits in THE TECH. Three hundred and thirteen seniors out of a possible 473 have subscribed a total of \$22,926. This is a percentage of 66.4 and represents an average subscription of twenty-three dollars, the highest of the different classes.

Below are the names of these subscribers up to December 6, published for the first time, are:

Class of 1920	
G. Abbott, Jr.	K. F. Akers
E. Alexander	Mary Almy
W. Anderson	P. D. Ash
C. Atwater	S. H. Ayala
M. Babbitt	R. G. Baker
G. Bangratz	J. R. Bartholomew
F. Bates	K. D. Bean
E. Beique	H. H. Bennet
M. Berko	F. A. Birmingham
W. Bibber	F. W. Boileau
D. Booth	F. C. Bowditch, Jr.
W. Boyer	F. L. Bradley
I. Bradley	S. B. Bragdon
M. Brickett	F. S. Britton

(Continued on page 4)

UNDERGRADUATE FUND TOTALS

Class	Men in Class	Men Subscribing	Amounts	Percentage	Average Subscription
1920	473	314	\$22,926.00	66.4	73.00
1921	783	476	29,713.25	60.8	62.40
1922	1049	654	34,337.08	62.3	52.50
1923	694	553	24,352.00	79.7	45.00
Unclassified Graduate Students	74	11	1,099.75		
Totals	3073	2008	\$112,428.08	67.3	\$58.25

PROFESSOR WHIPPLE TAKES UP WORK WITH WORLD RED CROSS

Professor George C. Whipple '89, professor of Sanitary Engineering has been appointed director of the Division of Sanitation, in the Bureau of Hygiene, of the League of Red Cross Societies. He will at once take up the task of organizing this new and important work, which is designed to become a sort of international health department and general clearing house for the exchange of information on public health activities in all parts of the world.

HOCKEY IS UNDER WAY WITH A RUSH

First Game Scheduled For January 9 With Tufts At Pavilion
—Six Man Game Will Favor Institute

GOOD MATERIAL OUT

Although hockey practice has been held for only a few weeks, and the playing season has hardly begun, the sport has already assumed surprising proportions, and gives promise of a more successful season than Technology has ever before enjoyed.

It is a tradition here at the Institute that hockey shall be one of the most important sports, and the tradition has been upheld by the splendid records made by varsity teams in late years. This exceptional display of interest in hockey is due to the fact that the ice season comes at a time when the activities of our biggest sport, track, are temporarily lost sight of, in the lull between the outdoor and the indoor games. Moreover, because of the speed of the matches and the opportunities for spectacular play which are offered, hockey undoubtedly has an appeal for a large number of athletic enthusiasts.

Conditions Favorable for Hockey

This year, besides possessing all the advantages which past teams have had, there are greater possibilities for a striking success than has heretofore been thought possible. All sports here at Technology work under the same handicap when it comes to preparing for competition with other colleges; the impossibility of installing here any such elaborate and costly system of training as is customary at the big colleges whose scholarship requirements are less severe than ours. This handicap has been overcome to the greatest extent in the case of track, where in most cases, candidates and team members may come out for practice in any odd moment that can be spared, and be accomplishing very nearly as much as if time were no object. In the case of hockey and

(Continued on page 3)

M. B. LEES '20 LEADS ALL UNDERGRADUATE BOWLERS

M. B. Lees '20 has the record of rolling the highest score of any undergraduate at the bowling alleys in the Walker Memorial, according to the record posted by Eddie Pung, on the blackboard, at the entrance of the alleys. Lees has 133 points to his credit, this being the greatest number of points bowled by any Institute man in the Walker alleys since the opening of Technology last October.

INSTALLS BOSTON CHAPTER OF ENGINEERS' ASSOCIATION

Dr. Frederick Haynes Newell '84 president of the American Association of Engineers, installed the Boston chapter of the association at Lorimer Hall. Dr. Newell, a graduate of Technology, came from Chicago for the exercises.

He explained that the new association is devoted primarily to human and economic questions, such as employment and organization. He said the educators and engineers have little or no voice in the present state of unrest, because they are unorganized; therefore cannot satisfactorily perform their duties to the public and to each other. There is a third leg to the tripod on which society rests, Dr. Newell declared; labor and capital are no more important than management or engineering. This third leg must be strengthened so it may not be tied by labor or capital.

F. C. Shepard of Brookline, principal assistant engineer of the Boston & Maine Railroad, is president of the Boston chapter. The other officers are: W. G. Addis, Winthrop, of the Massachusetts Highway Commission, vice president; B. Lawrence, 53 State street, secretary-treasurer; L. G. Morphy of the Boston & Albany Railroad, J. H. O'Connor of the Highway Commission, H. H. Blake of the Navy Yard, Frederick O. Lewis of the United Drug Co. and C. A. Williams of the New Haven Railroad, directors.

ATHLETIC PROGRESS SHOWN TO ALUMNI

Boxing and Hockey Hold Prominent Place in Discussion of Alumni Advisory Council on Athletics

DINNER GIVEN TO MEMBERS

The Alumni Council on Athletics held a meeting recently at the Engineers Club to receive reports as to the condition and progress of athletics at the Institute. The boxing team, rowing, gym, swimming, tennis, rifle, hockey and track teams were represented and each reported that a very large amount of interest was being shown. Seven members of the Advisory Council were in attendance.

Present—Messrs. Gram, Howes, Hunter, Rockwell, Ryer, Worcester and Rowe of Advisory Council.

Dinner was served at 6:30 o'clock during the course of which the secretary read, first—the minutes of the preceding meeting; second—the minutes of the informal meeting on Field Day; third—the minutes of the informal joint meeting of the Budget Committee and Advisory Council; fourth—an informal report of the secretary's attendance at the M. I. T. A. A. on November 24. These minutes were approved.

Track Insignia Awarded

From the minutes of the meeting of the M. I. T. A. A., held December 9, the following names were noted as having automatically won the TTT: Thomas H. West, W. A. Caulwell and Henry S. Colton. The secretary was authorized to notify these young men of their winning the insignia and to forward to them their shingles at the earliest possible moment. Gram presented a brief statement concerning the proposed Varsity Club asking for suggestions for officers as those involved in the preliminary movement are all very recent graduates. The names of Major F. H. Briggs and John Batchelder were suggested informally as being suitable candidates. At 7:30 o'clock, Heffernan, of the track team, appeared and during the course of the evening the following members of the M. I. T. A. A. arrived: Addicks, boxing; Steffian, rowing; Ramsey, "Gym" team; McKay, swimming; Trowbridge, tennis; Skinner, rifle; Officer, rockey; Bawden, track.

Boxing Provisionally Recognized

Addicks made a report on the boxing team stating that a large number of candidates had presented themselves; that apparently there was a very keen interest; that \$150 would probably pay the expenses of a team for the season inasmuch as each man

(Continued on page 2)

'MR. SMITH' INVITED TO ANNUAL ALUMNI DINNER

Details to be Arranged Monday by Alumni Council in Walker—Discussion of Technology Plan and June Reunion

GEORGE L. GILMORE '90 WILL PRESIDE

The December monthly meeting of the Alumni Council, preceded by the usual informal dinner will be held Monday evening, December 29, in the Faculty room of the Walker Memorial. Arrangements of the various details of the annual dinner of the Alumni Association will be discussed, and owing to the forced absence of President Coleman duPont '84, George L. Gilmore '90, vice-president of the Council will preside.

Notices of the invitation sent to "Mr. Smith" to attend the dinner on January 10 were sent to all the Alumni in the vicinity of Boston and New England and with his presence as a drawing card it is expected that the attendance will greatly exceed that at the last annual dinner.

RENEWS LEASE

Government Decides to Keep
Institute Wind Tunnel

The United States Government has decided to renew the expired lease on Technology's wind tunnel. In the renewal the government retains G. M. Denlinger '13, Aeronautical Engineer, Air Service, U. S. A., as director of the laboratory assisted by C. D. Hanscom and a staff of government engineers.

Not only has science been advanced by the discoveries of aeronautical experts at Technology, but actual saving of life has resulted. This fact is recognized by the government, which, in announcing the renewal of the lease, declares that "probably no agency in the world has played a greater part in saving the lives of aviators than the Technology wind tunnel the first American effort for scientifically determining the actions of airplanes under varying conditions."

The wind tunnel was invented because of the difficulty of making accurate scientific observations upon a full-sized airplane in actual flight. Not only would this be hard to do, but it might involve risk of life, to say nothing of the expense of large-size experiments. Since an airplane depends for support upon its rapid passage through a stream of air, it makes no difference whether the air or the plane be moved; the relative effect upon the plane is the same. It would be difficult to reproduce an artificial wind of consequence in a tunnel large enough to hold a complete airplane. Therefore, a small, accurate, model of an airplane offered the solution of the problem.

Technology's wind tunnel was constructed under the direction of J. C. Hunsaker, now a commander in the United States Navy, and an expert in aeronautical science. A box-like tunnel, fifty-three feet in length and sixteen square feet in section, was constructed. At one end is a four-bladed propeller, very like that of an airplane in appearance, which, driven by constant motor speed, sucks air through the tunnel at any rate up to forty miles an hour. In the center of the tunnel is placed the model airplane or wing surface to be tested.

Delicate apparatus connected directly with the model under test records every force and movement which is created by the rapid passage of air over the plane surfaces. Skilled observers note the action of the mechanism under varying conditions. When their observations are complete and the results have been scaled up they are able to predict with assurance the behavior in the air of the full-size machine, twenty-four times as large as the model.

Their report to the government tells whether the wing or model under test is inherently stable, the amount of strain to which it will be subjected under ordinary conditions, and the factor of safety which must

It is expected that a full attendance will be on hand Monday, inasmuch as a number of important matters are to come up for discussion, including many problems such as the administration of the "Technology Plan" and the Alumni Reunion, which is to be held next June. Details of the annual dinner of the Alumni Association, which is to be held on Saturday night, January 10, and which is to officially mark the closing and successful climax of the present Endowment Fund campaign, will be arranged.

The Endowment Fund Committee, which started last October on the then apparently impossible task of meeting "Mr. Smith's" minimum conditions by raising \$3,000,000 before New Year's, passed that mark last week. The present belief is that the \$4,000,000 which matures "Mr. Smith" dollar for dollar, will be obtained by January 1st or shortly thereafter. At any rate the committee feels very confident that January 10th will see the completion of the drive.

The opening of the new year, at which date the operation of the Technology Plan officially commences, is expected to witness over 100 concerns who have signified their desire and signed contracts for the service to be performed by the Consulting Division of the Institute. Although the plan and operation of this Consulting Division is primarily the duty of the Corporation, the Alumni Council expects to discuss the means and methods of carrying out Technology's side of these contracts and lend every possible assistance and advice to the Corporation and the Officers of the Institute in the matter.

"Mr. Smith" has been invited to attend the dinner on January 10, and notice of this fact was sent yesterday to all of the Alumni in the vicinity of Boston and New England. The attendance is expected to tax the facilities of Walker Memorial to the limit. Last year nearly 1000 attended in spite of war conditions and with no particular drawing card such as the presence of "Mr. Smith" will be.

The Committee in charge of the dinner, headed by Lawrence Allen, '07, has arranged a number of special features. It is understood that inasmuch as these are to be in the nature of a surprise no advance information can be given out. It is probable that the latter half of the evening will be devoted to a discussion of the program for the five-year reunion which is to take place next June. The last big Alumni reunion was in June, 1916, at which time the dedication of the present site of the Institute took

(Continued on page 4)

CALENDAR

Sunday, December 28

3.00—Mr. W. W. S. Cook speaks on "Spanish Paintings," Museum of Fine Arts.

4.00—Mr. P. A. Means speaks on "Ancient Peruvian Civilization," Museum of Fine Arts.

Monday, December 29

5.00—Alumni Council Dinner, faculty dining room, Walker.

6.30—News Meeting of THE TECH, News Room, Walker.

(Continued on page 3)