

OARSMEN START WORK ON MACHINES MONDAY

Winter Work for Institute Crew
Candidates Starts 1917 Season
—Practice Twice Weekly Now
—Daily Practice After Exams

CREW MASS MEETING TUESDAY

Technology's oarsmen will begin their winter training Monday afternoon when the first work on the machines will take place. As many of the men who intend reporting for crew as possible should put in a few minutes' work on the machines during the next few days in order to get limbered up for the harder work of the winter. The machines, which were transferred from the B. A. A. boathouse yesterday, have been installed in the basement of Building 1, Room 1-059, alongside the arsenal, where the winter practice will be held.

There will be a big mass meeting on Tuesday at 1.30 when the names of the crew candidates will be taken and the work for the winter outlined. The meeting will be held in Room 4-108, and Coach Stevens will probably address the candidates. Captain Deacon will address the candidates and Manager Littlefield will announce the preliminary schedule of the oarsmen for the coming winter and spring.

In the Sophomore competition for manager of the Technology Rowing Association, Everett F. Doten '19 of Somerville has been elected second assistant manager of the association. He will become manager in his Senior year and next year will be assistant manager. The competition lasted throughout the fall, and Harold J. Daube '19 of Chicago, Ill., was second, and was made manager of the 1919 class crew. Samuel A. Sherman '19, of Stamford, Ct., has been appointed assistant manager of the second crew.

Will Race Harvard Club Crews

Although no official announcement has been made, it is probable that the Technology Rowing Association will put a picked crew on the river in May which will race against Harvard's club crews and against some outside eight. The early spring practice will be devoted to the development of four class crews which will race in the Class Regatta during Junior Week in April. Later in the season the preliminary plans call for the picking of two crews from the class boats, and racing these against outside crews of equal strength. The class crews will continue to row, and a second regatta will be held late in the spring.

A competition for manager will be opened to the freshmen after the mid-year examinations, and three men will be picked as a result of the competition who will be allowed to compete next fall for the managership of the Technology Rowing Association. The leading candidate this spring will be made temporary manager of the 1920 class crew and will be eligible to receive his class numerals if his crew wins in the class races.

January Practice Voluntary

Practice for the crew candidates during January will be voluntary in that the candidates may choose their own hours for practice. But every oarsman is expected to put in at least two sessions per week on the machines from now until the beginning of the new term in February, when regular daily practice will be held.

The winter work of the oarsmen is a very important part of the training which has been mapped out for the Institute oarsmen. The experienced men will get their muscles into condition so that they can start hard work in the shells as soon as the river is cleared of ice, while the green men will be able to learn how to handle their oars before they enter the boats. The winter training will be invaluable to the

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BIG ALUMNI BANQUET CALLED FOR TOMORROW IN SOMERSET

Institute's Duty to National Government to Be Subject for Discussion

At the annual dinner of the Technology Alumni Association, to be given Saturday evening, Jan. 6, at the Hotel Somerset, Technology's duty to the National Government will be the subject for discussion. The guests of honor and the speakers will be President Maclaurin, Dr. Willis R. Whitney '90, member of the United States Naval Consulting Board, Raymond B. Price '04, who has just returned from the war zone, and Francis R. Hart '89, president of the Alumni Association. The new officers of the Alumni Association in addition to President Hart are Morris Knowles '91, vice-president; Walter Humphreys '97, secretary-treasurer; George L. Gilmore '90, and Alexander Macomber '07, executive committee.

PENN MEN WIN PRIZES

State College Men Take Two of
Three Chicago Commerce
Honors

In the contest conducted by the engineers' subdivision of the Chicago Association of Commerce for papers upon engineering subjects, the following winners have been announced.

First prize of \$50.00 awarded to Harvey T. Hill, graduate of Pennsylvania State College. The subject was "Engineering and Civic Progress."

Second prize of \$30.00 was awarded to Leo Shippy, of Iowa State College. The subject was "The Engineer of the Future."

Third prize of \$20.00 was awarded to H. M. Kistler, graduate of Pennsylvania State College, his subject also being "The Engineer of the Future."

Eleven universities and technical schools were represented in the contest by those who submitted papers. The prizes were offered for the best articles on any one of the three subjects as follows: (1) "Engineering and Civic Progress," (2) "The Engineer of the Future," (3) "The Business Relation of the Engineer to the Commercial World."

The judges of the contest were Prof. F. H. Newell, University of Illinois; Dean John F. Hayford, Northwestern University, and John W. Alford, consulting engineer.

LAST ELIMINATION BOUTS TODAY FOR FRESHMAN-ANDOVER TEAM

The final elimination contest to determine the freshman wrestling team, that will meet Phillips Andover Academy after the mid-year recess, will be held today in the basement of Building 1 from 4 to 6 o'clock. No man will be required to wrestle twice within an hour, but it is expected that the winners of the titles in the various classes will be ready to defend them against any who have lost in that class. In this manner the losers may win the title by defeating the man who holds it in two straight falls.

At this meet, any man who fails to appear forfeits the bout to his opponent if the latter is on hand. Any wrestlers eliminated from the team will continue to practise with the squad, the best of them being used as substitutes when more than one is needed in a class.

The following bouts will be decided: 115 lb. class, Hills vs. Dana, the winner to wrestle Syner; 125 lb. class, Norton vs. Bowman, Bond vs. Lavelle, Ross vs. the winner of the Norton-Bowman bout and Bond or Lavelle vs. the winner of the last bout; 135 lb. class, Wenberg vs. Caldwell, winner vs. Lariviere, Young vs. Cormier, the two winners; 145 lb. class, Smith vs. Zahn, winner vs. Swift, Steele vs. Badger, the two winners; 158 lb. class, Abbott vs. Fitzgerald, Freeman vs. Kellar, the two winners; 175 lb. class, Levinson vs. any challenger of this weight; unlimited class, Abercrombie vs. Casey.

DEVISE NEW SYSTEM FOR ACTIVITY BOOKS

Institute Committee Also Advocates One Student Tax to Cover Class, Athletic and Walker Memorial Dues

ARTICLE TEN AMENDED

At the meeting of the Institute Committee held yesterday afternoon in Room 1-190, the representatives from the Musical Clubs, Tech Show, Mining Society, Athletic Committee and freshman class were absent.

E. G. Senter '17, chairman of the Finance Committee, stated that the committee had devised a new style of report for use in keeping account of the finances of each activity and which will show the true state of their funds. Card files have been provided in Room 1-190 in which the books of activities not having offices of their own are to be kept on file. L. L. McGrady '17 reported for the Budget Committee that owing to the fact that the Gym team had been disbanded he sum of ninety dollars allotted to them was placed at the disposal of the Institute Committee. E. F. Deacon '19 requested representation for the Technology Rowing Association on the M. I. T. A. A., and after some discussion the matter was laid on the table. The committee appointed at the last meeting to consider the advisability of holding class elections in the spring instead of the fall of the year was announced as consisting of N. E. Tourtelotte '17, chairman, O. E. Lorenz '18, and G. F. French '19. The committee was not able to report anything at this meeting.

The following amendment to Article 10, Section 3, of the constitution was ratified: "If the full official representation of any activity is not present at two successive regular meetings of the Institute Committee, that activity shall immediately forfeit its right to representation on the Committee, which representation shall not be re-allowed until the Institute Committee has been in receipt of a formal petition from that activity in question and has passed on the same in conjunction with admission as stated in the constitution of the Undergraduate Association."

E. P. Brooks '17 gave an informal report of the Ways and Means Committee, stating that it is the intention of the committee to recommend that dues in the Undergraduate Association be charged. The money so received will be allotted to cover the following items: class dues, athletics, one-half of the running expenses of the Walker Memorial, and the expenses of the Institute Committee.

The next meeting of the Institute Committee will be held next Thursday, Jan. 11, at the usual time and place, 5 o'clock in Room 1-190. At this time the Ways and Means Committee and the Finance Committee will present a more formal report. The student body is always welcome at these meetings and are free to express any opinions which they may have.

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CORPORATION XV ELECTS OFFICERS

Last evening Corporation XV held a banquet in the Caf preceding the regular business meeting. About forty members of the Corps were present, including many of the Faculty. R. C. Erb '17 was elected President, T. Howard '17, Secretary, and J. Wallis '17, Treasurer, for the coming term. D. Bell '17, D. Center '17, A. Howard '18 and P. Strang '18 were elected Directors. After the election, Mr. Whiting spoke on the purpose of founding the Corporation and of its present standing. The question of the advisability of making Sophomores eligible for membership in the society was discussed and will be voted upon at the next meeting.

TECHNIQUE SIGN-UP CAMPAIGN BEGINS WITH SECOND TERM

Will Provide Extra Solicitors to Prevent Usual Rush for Books

With the beginning of the second term will start the sale of sign-ups for Technique 1918, continuing until the first of March or until the complete issue of 900 copies has been subscribed for. No sign-ups will be received after March 1 nor will anyone not possessing a ship be allowed to enter the Technique rush.

In former years a great rush to sign up has been had just before the close of the campaign, and to avoid this difficulty, Technique urges students to subscribe early. To further dodge such a congestion the Board will provide more solicitors than in former years.

Technique hopes that the book this year will be of a quality befitting the first issue in the new buildings. The annual will be the only form of permanent record of the year's events, and in addition it will furnish a complete directory of all the students and Faculty. As in the last two volumes the Senior Portfolio will be included in Technique.

TO TEST GAS ENGINES

New Laboratory for Diesel and
Aeroplane Units Nears
Completion

One of the buildings under construction on the Institute grounds is the Gas Engine Laboratory, situated near and to the east of the Power Station. The building is comparatively small, and makes use of the concrete fire-protection reservoir as a substructure. It has one main story and a balcony around three sides. A five-ton, three-motion, hand-operated crane travels half the length of the building; the end balconies serving as landing stages for the side balcony.

The equipment consists of representative types of internal combustion engines in addition to testing blocks for the temporary support of other machines under investigation. A producer gas plant occupies an annex 16 feet by 18 feet, which extends beyond the reservoir and has a depressed floor. The principal producer gas engine is a 50 H. P. Olds unit. Four engines are fed with city gas, with their dynamometer from another unit. These larger machines are in the crane way, and may be handled by the crane.

On the first floor, under the second balcony, are grouped the gasoline engines and test blocks for testing automobile engines. At the west end balcony are grouped hot air and small oil engines. At the east balcony are two large cast-iron test blocks and space for an electric dynamometer. A shaft on the east wall forms a part of the unit and may be driven by a 25 H. P. motor.

Provision has been made at these test blocks for testing aeroplane engines and propellers. A slot in the floor will allow a propeller of 12 feet to be tested in the building and an opening in the wall will allow the shaft to project outside the building and a large propeller to be tested.

A 4-inch cylinder Diesel engine with an extended sub-base for a dynamometer or generator is in the next bay.

The remainder of the second floor is taken up by the office, classroom and research room. In the research room there is a gasometer for constant pressure experiments, a gas compressor on a motor, for experiments on gas under pressure, and a bomb calorimeter for fuel testing.

THREE WILL BE ELECTED TO BEIT RESEARCH FELLOWSHIPS

Applications for the Beit Fellowships for scientific research are now at the information office, 10-100. Three elections will be made on or about July 15 to this fellowship which is tenable at the Imperial College of Science and Technology, South Kensington, London, and carries a grant of 150 pounds per annum. The fund for these fellowships was founded in 1913 by Otto Beit of London.

COWBOYS NOT BLOOD- THIRSTY SAYS TEXAN

Professor Lomax, Collector of
Ballads, Finds Cow-punchers
Brave, Kind-hearted and Fun
Loving

SOOTHE CATTLE WITH SONGS

Perhaps one of the most interesting lectures, on other than scientific subjects, was Professor Lomax's talk on "American Cowboy Ballads."

Professor Lomax, a Texan by birth and one who has lived in the far west and in close contact with all its conditions, left behind him a better understanding and sympathy for the cowboy in the minds of the men who took advantage of the opportunity of hearing the distinguished Westerner. The cowboy, although one of America's most interesting and unique characters, has been for a long time gravely slandered and misrepresented by both the press and the stage. Instead of a blood-thirsty outlaw and adventurer, the puncher is in reality brave, kind-hearted, fun-loving and in all respects a man. The ballads, of which Professor Lomax has made an extensive collection and study, show these qualities in the cowboy mingled with a carefree spirit, which makes them delightful to read and to hear. According to Professor Lomax the ballads were written for entertainment, as a means of dispelling loneliness and in some cases for the quieting effect upon the cattle that some of them were supposed to possess. Other songs sprang up as a means of telling a story of such events as make up the varied life of the puncher; a stampede, a horse theft or a romance. The authors of the ballads are not known, being in many cases the joint products of entire camps and handed down by word of mouth ever since the first crossing of the herds from Texas to Montana.

TRACK MEN MEET TODAY

Frank Kanaly to Speak—To Announce Plans

There will be a mass meeting of all men interested in the track at 4 and 5 o'clock today, in Room 10-250. Coach Kanaly will be present and will announce what arrangements have been completed for the winter's work as well as give some suggestions about training. In order to make sure of a large attendance, there will be no required running today after 1 P. M.

Construction work is now under way to bank the turns of the board track, so that time trials may be made by Saturday afternoon. The date of the Coast Artillery meet has been finally arranged for the evening of Jan. 27, in which both a freshman and varsity team will be entered. Technology's event is the 320 yards relay, where her principal opponent will be Harvard.

CALENDAR

Friday, January 5, 1917

- 4.00 P. M.—Freshman elimination wrestling bouts, Basement of Building 1.
- 4.00 P. M.—Track meeting addressed by Coach Kanaly, Room 10-250.
- 5.00 P. M.—1919 Technique Electoral Committee meeting, Room 4-231.
- 5.00 P. M.—Track meeting addressed by Coach Kanaly, Room 10-250.
- 5.00 P. M.—Rifle Club meeting, Room 1-075.
- 7.00 P. M.—Dormitory Committee meeting, Room C-504.

Saturday, January 6, 1917

- 1.00 P. M.—Last chance to get anthropometric charts at Track House.
- 1.45 P. M.—Start of Pack and Paddle hike through Forest Hills, Room 1-175.
- 2.00 P. M.—Orchestra rehearsal, Caf.