

AERO CLUB VISITS AIRPLANE FACTORY

Members Make Trip to Plant of the Burgess Company at Marblehead — Have Special Car Both Ways

SEE MACHINES ASSEMBLED

Forty-five members of the Aero Club visited the plant of the Burgess Airplane Company at Marblehead yesterday. The Burgess Company is at present engaged in government work, having a contract for sixty machines. Two members of the Faculty, Professor Derr, of the Department of Physics, and Professor Wilson, of the Mathematics Department, accompanied the men on the trip. The party left the Institute at 1.45 o'clock, going directly to the North Station, where they took a special car to Marblehead. It was about ten minutes' walk from the station to the plant, which is made up of about twelve buildings.

The factory which the men visited was the old and not the new one which is not yet completed. The party was divided up into three groups so as to better facilitate going through the plant. Mr. Webster, who is a noted aviator and who will be at the training school at Squantum this Summer, took charge of one group, while Mr. Tattersfield, another well-known aviator, escorted the second group, and Mr. Davis, who is an inspector in the plant and who has taken several courses at the Institute, took charge of the third. The first building to be visited was one in which the wings were being put together and having the linen stretched over them; the linen used by the Burgess Company is very expensive, being imported from Ireland. After the linen is stretched over the frames it is "doped" and then varnished, after which the plane is set aside to dry. The next building to be visited was the wood turning shop in which ten ponies were in the course of construction. On the second floor of this building the fuselages, or bodies, are made. Here the fuselage of a huge 70-foot hydro-airplane was being constructed. On the third floor finished wings and propellers of various sizes were stored. The Burgess Company designs and makes all of its own propellers.

The party next went down to the wharf where they had a large hydro-airplane out on the water putting it through its final tests before turning it over to the Government. Near the waterfront there was a hangar in which was stored several machines, including a fully assembled hydro-airplane and also the flying boat of John Hays Hammond. This machine is unique in that it has a large body with six seats arranged one behind the other. One of the large flying boats built for the British Government and which Lieutenant Cabot spoke of in his lecture to the club at the last meeting was moored about 150 feet from the wharf. About twenty of the men rowed out to see it. This is one of the largest airplanes ever built, having a span of sixty feet and

(Continued on page 4)

M. E. SOCIETY DINNER

Last Event of Year to Be Held at Riverbank Court

Plans for the biggest event of the season have been made in connection with the final banquet of the Mechanical Engineering Society which will take place tomorrow evening in the Riverbank Court at 7.00 o'clock. Professor E. F. Miller, head of Course II, will be the honorary chairman of the evening. The principal speakers will be Mr. Ira N. Hollis, President of the American Society of Mechanical Engineers, and Mr. R. W. Boyden, a Boston lawyer.

The results of the elections of the officers of the society for the coming year will be announced at the time. To inform the members of the organization in regard to the extent of the work which has been accomplished during the past year, reports by the various officers will be presented. The tickets for the dinner are \$1.50.

LATIN AMERICAN CLUB DINNER

President Maclaurin and Dean Burton to Speak

The Latin American Club will hold a dinner at Hotel Lenox tomorrow evening at 7.00 o'clock. The committee in charge has invited not only representative officers of the Institute, but the presidents of the student societies and the class presidents. The list of speakers includes President Maclaurin, Dean Burton, Registrar Humphreys, Professor Seaver of the English Department, and as representing the student body and the Institute Committee, John M. DeBell, President of the Senior Class.

The club had planned to give a dance as one of its entertainments but owing to the fact that everyone is so busy with military plans and that the members may be called away for military duty at any moment the dance has been given up and the dinner substituted for it.

The number of Latin American students at the Institute has steadily increased until there are now thirty-six representing eleven different countries. Tickets for the dinner may be obtained from any of the following officers of the club: Francisco Lobos, Alfredo de Zubiria S., N. F. Alvarez and Vincent F. Checa.

INSTITUTE ALUMNAE

Supplementary Questionnaire to be Prepared Soon

The Alumnae of the Institute, at their recent meeting in the Emma Rogers Room, supported the action of the Alumni in coming to the aid of the country along the lines in which their education and experience will make them of the greatest service.

The Women's Association voted that it pledge its allegiance to the Federal Government and that of the Commonwealth in the present crisis and tender the services of its members in any direction in which they may be needed. The association further expressed its appreciation of the work of the Alumni Committee in the mobilization of the resources of Technology, and pledged its loyal support of and cooperation with those efforts in any direction in which its members may be of service. Miss Mabel Keyes Babcock, President of the Women's Association, was empowered to appoint a committee of five to prepare with the Alumni Committee a supplementary mobilization sheet, specially for women. An organization will be formed to care for the families of Technology men who go into the army, navy or industrial service.

There are about eight hundred women graduates of the Institute who have received the education of men and engineers, and many of them are already serving the government in various capacities. Miss Lydia Gould Weld, B.S., one of these graduates, has been for a long time in the most responsible position in the draughting room of one of the largest ship building corporations of the Atlantic Coast. Another alumna is in the Bureau of Docks and Yards, while three or four others are among the professional draughtsmen of the country. There are fourteen Technology alumnae professionally engaged in hospital work in its different branches from administration to the laboratory.

1918 TO PLAY FRESHMEN

The second game of the interclass baseball series will be played between the Juniors and the freshmen Friday afternoon at 3.00 o'clock on Ford field. In the first game of the series the Juniors defeated the Sophomores 6 to 5.

TRAINING CONFERENCE AT WILLIAMS COLLEGE

There is a training conference of the New England officers being held this week at Williams College. The following men are representing Technology: E. Rounds '17, A. S. MacAlister '18, G. Irwin '19, Peter Strang '18, and Walter Beadle '17.

Last week Walter Beadle was elected assistant secretary of the Technology Christian Association by the Advisory Board.

Bulletin No. 4 of the Joint Committee on National Service at the Institute

May 2, 1917.

The Joint Committee is able to announce the following provisional report concerning different forms of national service for which Seniors have offered themselves. Out of a possible 350 replies, the committee has heard from 319 men, as follows:

ARMY	
To attend R. O. training camps.....	26
Taking regular army exams (mobile arms and coast artillery) in April.....	33
Taking regular army exams on July 23.....	4
Taking regular army exams (engineers) on June 25....	30
Intending to enter ordnance department.....	35
Intending to enter signal corps (including aviation section).....	1
NAVY	
Commissioned in Reserve Corps of Marines.....	1
Commissioned in Naval Reserve for Engineering Duty	3
Taking exams for Commission as Acting Ensigns for Engineering Duty.....	3
Taking intensive course in naval architecture.....	48
INDUSTRIAL	
Men already in industries specially serving the army or navy, and men who have failed to pass the physical examination for active service.....	10
Men planning to enter industries of various kinds.....	29
UNDECIDED.....	96

Twenty-two men in Course IV and seven in Course VI have not been heard from, and ninety-six men are "undecided." It is hoped that these two classes of men will communicate with the Committee as soon as possible. For their benefit, the following opportunities are recommended:

RESERVE OFFICERS' TRAINING CAMPS. For Infantry, Cavalry, Field Artillery, and Coast Artillery. Men failing to be accepted for the Camp starting May 14th may apply for the second camp, opening sometime in August.

RESERVE OFFICERS' ENGINEER CORPS. Men apply not for Training Camps but send applications for examinations to Chief of Engineers, United States Army, Washington, D. C.

EXAMINATIONS FOR COMMISSIONS IN THE ENGINEER CORPS OF THE REGULAR ARMY beginning June 35. Professor Spofford will conduct a course beginning May 14th for men wishing to prepare for these examinations. Seniors preparing for these examinations will be excused from all work in their regular courses.

COMMISSIONS IN ORDNANCE RESERVE (First and Second Class). Men desiring to make application for examinations for commissions should first read the information on this subject on the Official Preparedness Bulletin Board. Professor Miller will be glad to answer questions.

ACTING ENSIGN FOR ENGINEERING DUTY. Men desiring to take examinations should apply to the Chief of Bureau of Navigation, Washington, D. C., for information.

TRAINING COURSE FOR AVIATORS. To train men accepted in the Aviation Corps preliminary to actual flying practice. Further information will be issued later.

Other opportunities closely allied to government service are the following:

INTENSIVE COURSE IN NAVAL ARCHITECTURE. If a sufficient number of men offer themselves, Professor Peabody will start a second two-months' Course, beginning about June 1.

GRADUATE COURSE IN AERONAUTICAL ENGINEERING. There is an opportunity here for ten or a dozen men. Seniors from Courses II, VI, XIV, and XV Op. 2, may enter without further preparation. Men from other courses will need to qualify in Differential Equations.

THE JOINT COMMITTEE ON NATIONAL SERVICE,
(Signed) Richard C. Maclaurin, Chairman.

E. H. S. MEETING

The last meeting of the English High School Club of Technology this year will be held next Wednesday, May 9, in the Caf. The speakers will be Mr. Snow, headmaster of the Boston English High School, Mr. John A. Marsh, and Mr. Charles Lebon. All graduates of the Boston English High School are invited to attend.

ENGINEER CORPS

Fortification practice will be the work of the Engineering Corps for the next two days. Group A will have this practice today and Group B will have the same tomorrow. This Friday the entire corps will have Infantry Drill which will be taken up at first by platoons under the lieutenants, and then by the company under Captain Demeritt.

NEW INTENSIVE COURSE NOW WELL UNDER WAY

Fifty-one Institute Men Are Taking Advantage of New Course in Naval Architecture and Ship Drafting

GREAT DEMAND FOR GRADUATES

Fifty-one students at the Institute have started the intensive course in Naval Architecture which is to last ten weeks and will demand of the students a full ten hour day of study and work. The course is one that has been prepared at short notice by Professor C. H. Peabody, head of the department of Naval Architecture and Marine Engineering, for the purpose of filling an urgent need that exists for draftsmen in navy and ship building yards. The men who successfully complete this course have positions assured them at once where their special talents will be used to the advantage of the nation.

The course is one that fits well with the others at Technology, and appeals mostly to civil and mechanical engineers, and architects who have taken work in construction and similar options, and it is from these that the registration has been made up. The electrical engineers see their best use to the nation along the lines of the signal corps and accordingly have not joined in any large number.

The work of the new course is being conducted by Professor C. H. Peabody together with George Owen, Assistant Professor of Naval Architecture, and Evers Burtner, instructor. There will be two hours a day of lectures, five hours in the drafting room and three hours of preparation. Professor Peabody is giving lectures on the fundamental propositions of ship building, displacement and stability, the coefficients of safety, the theory of launching, and questions pertaining to power and speed of ships.

The lectures by the head of the department are being supplemented by other lectures by Professor Owen, which are in reality explanations of the problems in drawing, and together with Mr. Burtner, the work on the drawing table is being conducted for the major portion of the time.

This constitutes the study of ships' lines, the designs of merchant ships for different purposes, and the determination of sizes and properties. Special problems, like launching, are also being given, which, although they may seem to be to the layman merely mechanical problems, really require careful work at the drawing table. The students are in addition required to pass three hours a day in preparation which consists largely in reading.

Admiral D. W. Taylor, U. S. N., under whose jurisdiction such matters as this course come, has expressed himself as heartily approving.

THERE WILL BE A MEETING OF MEN IN THE SPORTS DEPARTMENT IN THE TECH OFFICE AT 1.00 O'CLOCK TODAY.

THERE WILL BE AN IMPORTANT NEWS MEETING IN THE TECH OFFICE AT 1.05 O'CLOCK TODAY.

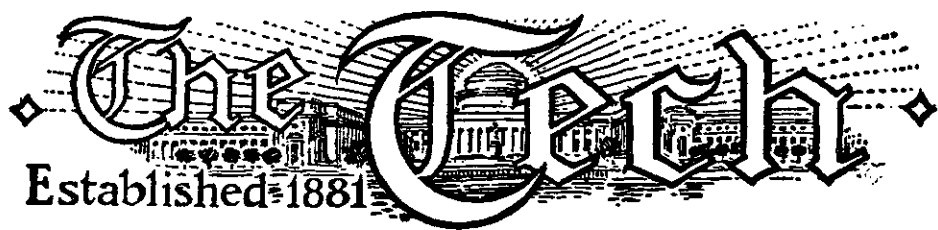
CALENDAR

Wednesday, May 2, 1917

5.00 P. M.—Tennis Match. Jarvis Field.
4.00 P. M.—Engineer Corps. Practical Work. Basement Building 1.

Thursday, May 3, 1917

4.00 P. M.—Engineer Corps. Practical Work. Basement Building 1.
5.00 P. M.—E. E. Society Meeting. Room 10-250.
5.00 P. M.—Reception to Mr. Edward Stuart '10. Library.
6.00 P. M.—Tech Show Dinner. Hotel Lenox
7.00 P. M.—M. E. Society Dinner. Riverbank Court Hotel.
7.00 P. M.—Latin American Club Dinner. The Caf.



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed. The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

WEDNESDAY, MAY 2, 1917

THE 'STUTE AND THE SEA

THE establishment of an intensive course in Naval Architecture brings to light an opportunity for special national service peculiarly adapted to the capabilities of Technology men. Naval constructors can neither be made in a day, nor made at all except from men with the soundest of technical training; and the need of the country for expansion of its marine is imminent, especially with the burden of war transport which is soon to be faced. For support in technical lines as this Technology men stand almost alone, and undoubtedly much of the new material for the nation's shipyards will be drawn from the Institute's ranks. The enthusiasm with which students have taken up the course as soon as offered, often perhaps at the sacrifice of a career in the profession of their first choice, attests their loyalty and desire to give service where it is most needed, when the need is pointed out and the opportunity given for filling it.

THE STUDENT FRANCHISE

IN A RECENT communication the reasons for holding elections in the spring instead of the fall were pointed out. The same reasons operate to make it of special importance that every man in good standing as an undergraduate vote at the coming elections, and that the choice of candidates be thoughtful. The unprecedented responsibilities, in view of war and of the Institute's expansion, which will devolve upon the undergraduates' representatives, are worthy of consideration by the best and most dependable men of every class, and the bearing of class elections on Technology's standing and reputation deserves recognition in every student's vote.

TECH SHOW BANQUET

Participants in This Year's Play to Meet Tomorrow

The Tech Show dinner will be held tomorrow evening in the Hotel Lenox at 6.00 o'clock. There will be after-noon speeches by the General Manager and other members of the Show. All men who have been connected with the Show—in the management, cast, chorus, ballet, or orchestra, and only those who took the trips with the Show are eligible to attend.

This dinner has been held after the final performance of the Show in past years but had to be omitted last year due to the lateness of the production.

The management wishes to announce that there are still a number of scores which may be purchased for one dollar each at the Technology Branch, in the Show office, or at nearly any music store in Boston. Pictures of the stars and group pictures may be bought at the

Co-operative Society or ordered by applying to the Publicity Department in the Show office.

E. E. SOCIETY

Mr. N. H. Daniels '96 to Speak at Last Meeting of Year

The Electrical Engineering Society will meet for the last time this year on tomorrow afternoon at 5.00 o'clock in Room 10-250. Mr. N. H. Daniels '96 will give an informal talk on "Jobs, How and Where to Get Them and What to Do with Them After You Get Them." Mr. Daniels is connected with Stone & Webster Engineering Corporation and by reason of his experiences is well fitted to give advice to college men who are trying to secure positions. Mr. Daniels has been in charge of the employment department of the corporation and is thus able to judge men and their abilities.



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COMMUNICATION

To the Editor of The Tech.
 Dear Sir:
 It is disappointing to note how very little interest has been taken in the new work that is being held on the Tech Field every afternoon from 4.00 to 6.00 o'clock. Before this drill was begun there were at least seventy-five to one hundred men who signified a desire and willingness to participate in it, but like many other activities in the Institute that depend upon the cooperation of the undergraduate body, the Drill Squads suffer from lack of support. It is gratifying to note, however, that there are at least a dozen or more men in the Institute interested enough in national affairs and military preparation to take the drill seriously. To say that they are deriving a great deal of value from the work of the Drill Squads is not going either of them justice. Every man is given an opportunity to exercise command as well as receive instruction as an officer. It was expected that the pursuance of this policy, if nothing else, would have a tendency to draw men into this work. Certainly it ought to appeal to those men contemplating entering Plattsburg, or enrolling in the new course of Military Engineering.
 EDWARD F. DEACON '19.

C. E. SOCIETY BANQUET

To Be Held Friday—Prominent Speakers Engaged

The Civil Engineering Society will hold its annual banquet and last meeting of the year Friday evening at 6.00 o'clock in the Engineers' Club at 2 Commonwealth Avenue. A number of prominent men have been obtained to speak on topics of special interest to the society members. The first speaker of the evening will be Mr. George W. Kittredge, chief engineer of the New York Central Railroad, whose subject will be "The Development of a Railroad Terminal." The second speaker will be Mr. Henry W. Hodge, Commissioner of the Public Service Committee of New York City, who will speak on "Broadening of Engineering Life." Ex-Governor Bates of Massachusetts, and Professor Spofford, head of Course I, have also been engaged for the evening, but the subjects of their speeches are not yet announced.

The election returns for the officers of next year will be announced at this meeting. The candidates are: for president, Marvin Pierce and Rudolph Beaver; for vice-president, John W. Friery and Geo. F. Malley; for secretary, Chas. F. Westland; for treasurer, Henry M. Barber and Walter T. Biggar; for assistant treasurer, Merritt P. Smith and Eugene Mirabelli; for executive committee: 1919, A. E. Farrington; 1918, C. C. Carpenter, J. E. Longley, J. H. Chase, Raymond Smith, E. Miao.

The ballots must be in by 1.00 o'clock tomorrow. They should be left in the box on the C. E. Society bulletin board.

EIGHT MEN PICKED FOR FRESHMEN TENNIS TEAM

To Continue Practice with Varsity Team

The following men, in the order of their rating, have been picked for the freshman tennis team: W. D. Merryweather, W. N. Barron, C. B. Stanwood, G. M. Wurzelbacher, N. G. Abbot, P. Bugbee, E. V. Jones and H. P. Massey. Anyone may challenge the last two men on the list for positions on the team and any man on the list may challenge any other man for his position on the list. The team will continue to practice with the varsity team as before. A definite schedule has not as yet been arranged for the freshman team, but it will be definitely announced in a few days. The first match will be played today at Jarvis Field at 3.00 o'clock.

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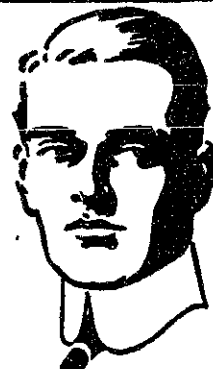
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TECHNOLOGY BRANCH

PRESIDENT MACLAURIN RETURNS FROM CONFERENCE AT CAPITOL

Visited U. S. Naval Academy and Discussed Its Future

President Maclaurin has just returned after a week's absence spent in visiting in Cleveland, Washington and Annapolis. At Cleveland he was the guest of honor at the convention of delegates to the Technology Clubs Associated, the great federation of the fifty or more Institute Alumni Associations. He met the former students at a banquet at the Hotel Statler and the subject he chose to speak on was "Preparedness of Technology Men."

Dr. Maclaurin then went to Washington where he had been invited for a conference with the President and the Secretary of the Navy with reference to the future of the U. S. Naval Academy at Annapolis, it being the desire of these two high officials to improve the courses of instruction and the conditions of work at this school. The members of the commission recently appointed by President Wilson to visit the Academy and make suggestions are together with Dr. Maclaurin, the presidents of five other colleges: Van Hise, of Wisconsin; Wheeler, of California; Alderman, of Virginia; Dabney, of Cincinnati; Humphreys, of Stevens Institute; and Dean Sills, of Bowdoin.

INFORMAL RECEPTION TO MR. E. STUART '10

President Maclaurin Will Attend—To be Held Tomorrow

There will be an informal reception tomorrow afternoon at 5.00 o'clock in the large auditorium under the library dome to Edward Stuart, S. B., late director of the American Red Cross Relief Committee in Serbia. Mr. Stuart graduated from Technology in the department of Sanitary Engineering in 1910, and afterwards became a member of the Harvard-Technology School for Health Officers. Other members of the Harvard-Technology unit in Serbia will be present. President Maclaurin will preside at the reception and brief addresses will be made by Professor M. J. Rosenau, director of the Harvard-Technology School for Health Officers, and Professor C. M. Spofford, head of the department of Civil and Sanitary Engineering at the Institute. President Lowell has been invited. An invitation to attend has been extended to all students at the Institute.

WHITE PHOTOGRAPHER



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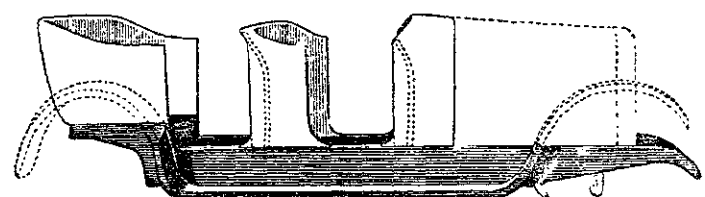
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ARCHITECTS TO TAKE TRIP AND HOLD ANNUAL DINNER SATURDAY

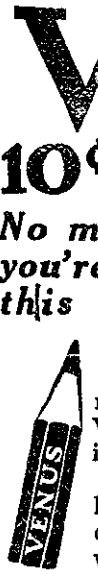
The members of the Architectural Society will make a trip to Frick's Place at Pride's Crossing, which is just outside of Salem. Afterwards they will return to Boston where they will hold their annual dinner at the Bellevue. The management has invited several members of the Faculty to speak, but it is not definitely known yet just who the speakers will be.

NATIONAL PROHIBITION PETITION

The T. C. A. is circulating a petition addressed to President Wilson for the purpose of informing him how the student body at the Institute is disposed toward National Prohibition as a necessary war measure. At the annual dinner of the Association, which took place last week, a resolution was passed the substance of which was that the Faculty and students of Technology be urged to signify their approval of national prohibition as a war measure either by joint petition or by letter to the President of the United States and to Congressmen of their districts.

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AERO CLUB TRIP
(Continued from page 1)

an over all length of twenty feet. As planned they were to have had a span of one hundred and thirty-seven feet, but this was found to be impractical, so they were somewhat reduced in size. They are equipped with four two hundred and fifty horsepower motors, a two horsepower motor to start them, and a forty horsepower motor to drive them while on the water.

The party then went to the building in which the bodies are assembled. In this building there was a wireless machine, that is, one in which no guy wires are used, the idea being to cut down wind resistance as much as possible. From this building the men went to another in which the pontoons are finished. Here they saw a large 70-footer which had only one pontoon. The wood used in the Burgess machines is the finest Alaskan spruce.

The machine shop was the next place to be visited. The Burgess Company maintain their own repairing department where they overhaul the motors. The motors used in the Burgess-Dunn machines are the Curtiss Type ONX-2 and the Sturtevant Number 5. Both are of the eight cylinder V-type, the former developing 100 horsepower at 1400 R.P.M., while the latter puts out 140 at its maximum speed of 2000 R.P.M. The Burgess people build several types of machines, the most important of which are the seaplane, the hydro-airplane, the ordinary land machine, and then a special type called the Navy Seaplane. The hydroplanes and the land machines are tractors and the others are of the pusher type, that is, propellers are behind rather than in front as in the first type. All of these machines are of two passenger capacity, and can carry a load varying from four hundred to one thousand pounds, depending on the size of the machine.

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