

INSTITUTE GRADUATES AIDED IN AIR CRISIS

Rear Admiral Taylor Pays Tribute to Technology Men Whose Knowledge Made Air Supremacy Possible

DESIGNED MANY AIRPLANES

The stories of the development of the airplane under Rear Admiral David W. Taylor give a bit of timely history and are a splendid tribute to this man who has been termed "the father of the airplane." The whole idea of building flying boats of this size and sending them across the Atlantic through the air, and under their own power, Rear Admiral Taylor, chief constructor in the U. S. Navy, realized at an early day the value of his great invention for conquering the air. Without in the least detracting from the credit that is due to this, forethoughtful officer, it is interesting to realize that behind it all and furnishing the foundation for this achievement, lie the patient developments by an educational institution, which have given the impulse to the whole great movement. It is to the credit of the Massachusetts Institute of Technology that it had the prophetic vision to be prepared for precisely the emergency that arose, and thanks to this preparedness the navy and the army too, were enabled at once to enter into their special lines of development without the least delay. It was indeed one of the fortunate things of the war that the Government of this country found its private institutions, business as well as educational, so well equipped and so efficiently managed that their plants and their personnel could be turned in a moment to the advantage of the nation. The story of how Technology came to be so magnificent a helper was divulged by President MacLaurin in a recent interview.

It should be first of all understood that Technology, to fulfill its chosen purposes, must be "ahead of the game," must sense the coming engineering needs before there is a hint of them on the surface. The reason for this is that it takes four to five years to educate the civil or the mechanical engineer and somewhat longer to prepare the marine engineer and naval architect. Men for such special service must be ready in advance of the demand, and to a very large extent it was the preparedness of the Institute that saved the Government from vexatious delay in its programme of ship building. Although the ship-building activities of the country had

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APPOINTMENTS TO INSTRUCTING STAFF APPROVED BY FACULTY

The Faculty of Technology announces the approval of the following lists of appointments and reappointments of members of the instructing staff of the Institute.

Those appointed instructors are:—R. R. Chamberlain, Physics; Thomas Derr, Physics; Raymond Douglass, Mathematics; A. S. Hardy, Physics; Ralph Morris, English; Charles R. Park, Theoretical Chemistry; Dr. James S. Taylor, Mathematics; Bailey Townsend, Physics; Dr. Robert Wiener, Mathematics; C. M. Wareham, Inorganic Chemistry; C. E. Turner, Public Health Administration in the School of Public Health; Miss Charlotte S. Alling, Research Assistant in the Chemistry of Foods.

The following have been reappointed instructors:—Ralph G. Adams, Mechanical Engineering; W. P. Blood, English; Francis R. Brown, Forging; R. G. Burnham, Mechanical Engineering; Evers Burton, Marine Engineering; C. H. Clark, Mechanical Engineering; M. R. Copthorne, English; I. H. Cowdrey, Mechanical Engineering; W. A. Crosby, English; Myron W. Dole, Mechanical Engineering; J. J. Eames, Mechanical Engineering; W. C. Eberhard, Mechanical Drawing and Descriptive Geometry; A. B. English, Machine Tool Work; D. A. Fales, Mechanical Engineering; F. M. Gracey, Freehand Drawing; W. J. Hau-

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ENGLAND LEGISLATING FOR NATIONAL ELECTRIFICATION

Will Use Waterfalls for Producing Cheap Electric Power

England is preparing to provide herself with cheap and abundant electricity for heating, lighting and manufacturing purposes, at an initial cost of approximately \$100,000,000. The bill to accomplish that result has been introduced in Parliament by the Home Secretary. With the indorsement of the Government as well as of people of all classes, it is expected to become a law in the very near future.

The plan for placing the country on an electrical basis provides for its division into districts, each district to be in charge of a commission. This body, whose members are to hold office at the pleasure of the King, will be empowered to acquire generating plants and transmission lines already built and to build such plants and lines as it may deem necessary. The commissioners are to conduct experiments for the purpose of improving methods of supply, for which purpose they will be empowered to call to their assistance an advisory committee of unquestioned experts.

It is not the purpose of the Government to build all the electrical apparatus in the country, but private corporations entering the field must obtain the consent of the Government and abide by its regulations. Water power will be extensively used in generating electricity, to reduce the cost and to stimulate its use for manufacturing and domestic purposes.

It is also said that within a reasonable time every railroad in the country will be electrified.—Boston Globe.

CHEMICAL ENGINEERS VISIT THE INSTITUTE

American Institute of Chemical Engineers Inspect Technology Laboratories—Interesting Session Held in Smith Hall

DINE IN WALKER

The Institute was host last Friday to the members of the American Institute of Chemical Engineers who were holding their eleventh semi-annual meeting in Boston from June 18 to 21.

From 8.30 to 9.30 on Friday the chemists were inspecting the laboratories of the Institute. Then by letter ES9A—the Institute. Then they all gathered in room 10-250 to listen to the reading of papers. Those read were: "Growth and Development of the Manufacturing Plant of the Providence Gas Co." by W. M. Russell; "Flash and Burning Points of Gasoline-Kerosene Mixtures" by J. T. Robson and J. R. Withrow; "The Manufacture of Castor Oil in the U. S." by J. S. Shrader; then followed a lively discussion of the question of licensing of chemists. The first speaker, E. Gudeman presented the question of registration basing his argument on the disadvantages under which chemical engineers labor when called into court as witnesses. Mr. Withrow urged that the chemists be watchful and see that the various bills introduced in state legislatures in regard to the licensing of engineers are acceptable to them. A. W. Smith objected to having the chemists join unions since he said that would put all chemists on the same level irrespective of their ability. Dr. Olsen and Mr. Langmuir followed both speaking in favor of co-operating with unionism. The discussion was closed by a humorous address by D. Wesson who ridiculed the licensing idea.

At 12.30 luncheon was served at the Walker Memorial. Mrs. King acted as host to the numerous ladies who were among the group. That evening the chemists dined at the Country Club, where they also listened to addresses by Col. W. K. Walker and Lt.-Col. D. C. Jackson of the Institute faculty.

—BUY W. S. S.—

Loose quarters may become lost quarters. Thrift Stamps tighten your hold on them.

R. H. SKINNER '21 TO BE CAPTAIN OF RIFLE TEAM

R. H. Skinner '21 of Dorchester was elected captain of the Rifle team for the season 1919-20 at a meeting of the latter men on last Tuesday. Skinner has earned a high reputation as a marksman this season. He was a member of the Rifle Club last year, and won his "T" this season.

Besides his activity on the Rifle team, Skinner has proved a valuable asset to the swimming team this season, his event being the fancy diving. He was also a member of the Tech Show ballet.

ADVISORY COUNCIL MEETS

Discusses Awards of T and Insignia Rules

A regular meeting of the Advisory Council was held on June 10, at 295 Commonwealth avenue and the following business was transacted: L. E. Boyden '21, manager of the Tennis Team presented an informal report of the team; he recommended H. Broekmann '20, and W. N. Barron '20 for the T, the former as winner of the singles, and runner-up in the doubles, and the latter as runner-up in singles and doubles in the N. E. I. C. L. T. A. tournament; he stated further that the freshman team had played excellent tennis through the season; that, owing to poor drainage the Institute courts were in poor condition, and that the interest in tennis was very keen, as was shown by the eighty entries in the spring tournament this year.

The reading of the minutes followed this report, and then the following votes were cast: that the following recommendations of the M. I. T. A. A. be approved; that H. J. Daube be awarded a T for his interest in support of athletics, that C. G. Dandrow be awarded the T for breaking the Technology record in the hammer throw in the Harvard-Technology meet; that M. Broekmann be awarded the T for winning the singles in the N. E. I. C. L. T. A. tournament, that W. Barron be awarded the T for his performance as runner-up in both singles and doubles in the same tournament, that N. Broekmann, W. Barron, W. McVane, T. N. West and L. E. Boyden, manager, be awarded the T for the season of 1918-1919, that G. Bawden be awarded the T for his performance in the Harvard-Technology meet, that W. N. Murray be awarded the T for winning a first place in the Technology-Dartmouth meet, that R. N. Skinner and A. L. Silver be granted the T for their work with the Rifle Team during the past season, that P. N. Anderson be recommended for the T, for his successful conduct of the track team during the past season. The recommendation that O. L. Mills be awarded the T was disappeared after thorough discussion, inasmuch as a second award of the T should be made only for very decided improvement in a man's work.

The next matter brought up for discussion related to the retention of Mr. Kanaly for the coming year. Dr. Rowe said that it was his opinion that considering Mr. Kanaly's attitude during the past year, he should not be retained. After general discussion it was moved that "it is the sense of this meeting that it is undesirable to retain Mr. Kanaly as track coach for the coming year." The motion was unanimously carried. This vote merely expresses the opinion of the Advisory Council, since the decision in the matter rests with the Institute Committee.

Various changes in the insignia rules were discussed and adopted, the requirement of two-thirds competition being required in nearly all cases, and the secretary was authorized to incorporate these changes in the existing insignia rules, and to present the amended rules at a meeting of the Advisory Council to be called on June 19, 1919.

—BUY W. S. S.—

The person who doesn't save goes without worth-while things today, and will go without them tomorrow. The person who saves has everything he needs today, and will have still more tomorrow. Buy W. S. S.

TWENTY-FOUR MEN TO ATTEND R. O. T. C. ARTILLERY CAMP

Six Weeks Training to be Given at Fort Monroe, Virginia.

The Institute is sending twenty-four men to the R. O. T. C. Coast Artillery Camp which opens Saturday at Fort Monroe, Virginia. Men who have had two years of training in the R. O. T. C. or the equivalent are eligible for the camp. The camp will last for six weeks and consist in handling and firing guns of major calibers. Men will be issued transportation to and from camp, subsistence, uniforms and given medical attendance. The following summer a similar camp is to be held, which the cadets will be required to attend. During the school term, two hours a week will be devoted to military studies in the Junior and Senior years. On receiving his degree the student will be eligible for a commission in the reserve.

The men will receive training in the use of guns of all calibers ranging from the three-inch field gun to the fourteen-inch railroad-gun. Target practice with heavy sea-coast guns will probably be undertaken by the cadets. Class-room work, consisting of practical problems in ballistics and range-finding will occupy several hours a week and observation from captive balloons and airplanes may possibly be taught.

The following are the Technology men who are attending the camps:

F. W. Adams '21, F. L. Blewer '21, D. E. Brown '21, L. W. Bugbee, Jr. '21, G. A. Clutter '21, H. S. Colton '21, E. M. Epstein '21, G. E. Fargo, A. C. Hayden '21, T. J. Homer, Jr. '22, P. C. Howe '21, J. F. Hull '21, L. A. Lloyd '21, C. MacKinnon '21, J. M. McClelland '22, J. Nesmith, 2nd '22, A. E. Povah '21, E. P. Praetz '21, R. Searlet '21, C. E. Thornton '21, H. A. Tucker '21, J. L. Vaupel '21, M. Weisman '21, A. R. Wood '21.

LIST OF VISITORS IN THE TECH BUREAU FROM MAY 29 TO JUNE 4TH INCLUSIVE

May 29, 1919—John H. Leavell '07, Clarence Birnbaum '15.
May 30, 1919—James M. Bugbee '18, S. M. Bagdoyan '15.
May 31, 1919—Fred L. Townley '00, Charles W. Loomis '16, Ernest Bomar '18, John A. Lunn '17.
June 1, 1919—James E. Wallis, Jr. '17.
June 2, 1919—Robert S. Gans '13, John M. Batschly '17, Edward Stuart '10, David Carb.
June 3, 1919—Wm. E. Zimmerman '20, C. E. Atkinson '17, Arthur R. Brooks '17.
June 4, 1919—Raynor Allen '09, Leonard Stone '16.

1911 HOLDS REUNION

Corp. Bond Entertains Class-mates With Address

Sixteen members of the Class of 1911 were brought together in Walker Memorial last Thursday evening by Mr. Orville B. Dennison '11, and a very sociable evening was spent. The members enjoyed a dinner and talked over his old times and events of the past few years. Three were in service in France, Corporal Joseph Arron of the Ordnance Department, Captain J. A. Herlehy of the Air Service, and the guest of the evening, Corporal Lowell Bond of the 101st Field Artillery. Corporal Bond gave a very interesting account of the 101st in action. Since his return he has become a member of the new firm. The Dri-Kure Sales company, of which Mr. Herbert Mayer '11, is president and Mr. Charles M. Baker '11, clerk of the corporation and manager.

The advisability of publishing a separate War Record Book was discussed and all agreed that it would be better to leave this until the Ten Year book is published in 1921, although the matter will have to be taken up with the entire class before anything definite can be decided upon.

—BUY W. S. S.—

Savings is not a dull duty. It is a ticket to the land of prosperity. Buy W. S. S.

INSTITUTE TO ADOPT CHANGES IN SCHEDULE

Year to be Divided Into Three Terms Instead of Two—Will Mean Several Important Changes in Many Courses

IN EFFECT IN 1920

After lengthy consideration the Institute has decided to have three terms a year instead of the usual two. This decision was reached after it was felt that with the three terms of ten weeks each more could be accomplished than during the two long terms of previous years. In order to accomplish this radical change with out undue confusion a transition schedule for the year 1919-1920 has been arranged at the end of which time the entire Institute will be under the three term schedule. These new plans necessitate several minor changes in the various courses, notable among these being that henceforth Course X men will have to take quantitative analysis and mechanism during the summer of their Sophomore year instead of taking qualitative analysis during the summer of their freshman year. Another noticeable departure from the old curriculum is that from now on all aspirants for the Technology degree will have to have passed off trigonometry before they are permitted to enter the freshman class. Physics, the bug bear of the Sophomore classes of previous years will henceforth be exclusively reserved for the luckless freshmen of future years.

M. I. T. A. A. PUBLISHES ITS NEWLY ADOPTED CONSTITUTION

The following is the continuation of the constitution adopted by the M. I. T. A. A. Previous parts appeared in the issues of May 3 and June 11.

Sect. 3. The making of contracts shall be subject to the previous approval of the Advisory Council and the M. I. T. A. A.

Sect. 4. The M. I. T. A. A. shall have direct supervision over all Institute athletic teams, including class teams.

Sect. 5. Elections of all athletic managers not herein provided for, shall be held under the direction of the M. I. T. A. A.

Sect. 6. A team manager or assistant team manager may be deposed for cause by the M. I. T. A. A. by the vote of at least seven-ninths of all the members.

Article II

Section 1. Team captains shall have the charge of their respective squads on the field during the season of play. They shall afford proper opportunity for practice, and shall conduct the same. Immediate charge of training, including the imposing of penalties, shall rest with the captain and coach. Appeal may be made from their decision to a committee consisting of the captain, the chairman of the Advisory Council, and the President of the M. I. T. A. A., whose decision shall be final.

Provided any team is not provided with a coach, its captain shall have charge of the physical training of the squad, and shall have power to discipline men for breach of training. The captain shall also, in conjunction with the coach, select the team for match games, it being understood, however, that the final power in the selection of the team, rests with the captain.

Section 2. Every captain is directly responsible for the decorum of his team while training and while taking part in contests; it is his duty to remove from the field of play any member of the team who is guilty of ungentlemanly or unsportsmanlike conduct. Any member of a team, whether Institute or class who is guilty of such conduct, may be further disciplined by the M. I. T. A. A. by suspension or removal from the team.

Section 3.—The captain of the track team shall be elected by the members of the track squad, who have received the "T" for the work of the past season of sport. Said election shall be held within two weeks after the annual track and field meeting of the N. E. I. A. A.