WAR DEPARTMENT WANTS TOPOGRAPHERS

Wish College-Trained Men To Supplement Engineers Corps
In Case Of War.

The Institute has received the following letter from the War Department in regard to the selection of suitable men whose names will be placed on a list for duty as auxiliary topographers, with such detachments as may be raised for service in time of war. Men interested in the work can obtain further information from Major Coile, who will, if sufficient men desire, conduct a class on the military branches of the plane table work.

"In order to obtain a number of young men who have had suitable instruction in plane table methods, such methods being similar to those employed in military sketching in the field, you are requested to initiate and continue a list of names of young men who could easily be trained in such work. The names to be filed at the War College."

"From the young men who are now undergoing instruction in the engineering colleges of the various institutions, it is found that the original observations which were carried out in the Aerodynamical laboratory of the Institute in January. So far as is known this is the first time that the effect of wind pressure on sails has been scientifically analyzed. The scope of the work was originally intended to include the determination of the location of the true center of pressure for several speeds of wind and for different angles of sail to wind, but as the computations progressed, it was found that the original observations gave the means of determining additional results of new interest from the experiments upon a yacht's model which were largely dependent on the hearty cooperation of Mr. J. C. Hunsaker, who is in direct charge of the Aerodynamical laboratory."

"The soil used was an exact reproduction of a successful sail (main-sail) on one of last season's class B boats and was made accurately on the scale of 3/4 of an inch to 1 foot. As it was considered undesirable to have any sort of body under the sail, the boom was rigidly attached to the mast with the gaff left in swing free in the usual manner. The mast was then mounted in the wind tunnel upon a balance, a copy of the one used in the National Physical Laboratory in Great Britain and measuring thrust in the direction of and at right angles to the wind."

"In general, the results show what has been assumed in practice. The center of pressure on the sail was practically at the center of area and the wind pressure for a velocity of 15 miles an hour was .85 pounds per square foot when the sail was set at right angles to the wind. It was also found possible to determine the angle at which the boom should be set with the centerline of the boat when sailing a given course, in order to obtain the best results from the sail."

PIONEER WORK DONE AT THE INSTITUTE

Professor Everett Investigates
Wind Pressure On Sails Experimentally.

At the latest dinner of the Naval Architectural Society, Professor H. A. Everett of the Naval Architectural College described the experiments upon a yacht's model which were carried out in the Aerodynamical laboratory of the Institute in January. So far as is known this is the first time that the effect of wind pressure on sails has been scientifically analyzed. The scope of the work was originally intended to include the determination of the location of the true center of pressure for several speeds of wind and for different angles of sail to wind, but as the computations progressed, it was found that the original observations were the means of determining additional results of new interest from the experiments upon a yacht's model which were largely dependent on the hearty cooperation of Mr. J. C. Hunsaker, who is in direct charge of the Aerodynamical laboratory."

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C. E. SOCIETY

The C. E. Society has arranged for a trip through the new subway from Park to Summer streets. The number of men in the party is limited to twenty-five and for this reason early sign-ups with Haste or Thomas will be necessary. The trip will start at 2 o'clock, the meeting place to be announced in Friday's issue of The Tech.

Nominations for the various offices of the Society are in order any time during the two weeks between Monday and Thursday, the 22nd. Papers may be left with Haste or at the Cage.