First Meeting

# Water Tunnel Tests Debaters Slate **Underwater Devices**

Penn State is the home of one of the largest water tunnels in

Currently the staff of the Garfield Thomas Water Tunnel, located on the corner of Route 322 and Pollock road, is engaged in testing underwater devices.

The water tunnel expected to produce valuable information on underwater devices both for nonmilitary purposes and national tween engineers are relayed defense.

Studies and designs of torpedo system. propellors are currently being studied. Research in the tunnel is named after Lt. done with the torpedo remaining j.g. W. Garfield Thomas Jr., who stationary and the water pressure, velocity, and temperature 1938. being regulated.

Torpedo Depth

The depth of the torpedo model World War II, was fatally woundto plus 45 pounds per square inch, corresponding to depths from a named the USS Garfield Thomas few feet to a hundred feet.

The 106,000 gallons of water are Navy Cross. circulated by a 2000 horsepower motor which can produce water velocity up to 80 feet per second, search associate; and Frank Lane, or 55 miles per hour in the work-

tional heat incurred pumping the water.

The tunnel itself is 100 feet long and 32 feet high. Filled, it weighs nearly 600 tons. It is shaped like a rectangle with the largest portion 12 feet in diameter and the smallest section, the working section, only four feet in diameter.

Largest Working Section

This working section—the largest in the world-where the models are tested contains four-inch thick plexiglass windows, through which the models are observed and photographed.

All measurements to be made and mechanisms to be controlled are done from a soundproof booth near the tunnel. Messages beFor Sept. 26

through an inter-communications

David Lewis placed first among in actual conditions can be determined by varying water pressure in the tunnel from minus 12 Ship Named For Hero

David Lewis placed first among the lives of his the top 20 debaters following the grand champion, Richard Van Oruge in the tunnel from minus 12 Ship Named For Hero

David Lewis placed first among the top 20 debaters following the grand champion, Richard Van Oruge in the tunnel from minus 12 Ship Named For Hero

Only 15 Pounds 10 Pounds 10 Pounds 10 Pounds 11 Pounds 12 P On Dec. 12, 1943, the U.S. Navy

The men's affirmative team placed fourth in the Big Ten, a in his honor. He also received the listing of the top teams in the tournament. About 210 debaters from 45 colleges participated in

Clair George, senior, and Bren-Temperature is regulated by a 350 ton refrigeration system, which is used to remove the frictional heat increased assistants.

James McGinley, Thomas ner, who graduated in June, represented the Middle Atlantic region in competition for membership on the American Interview. tour Australia and Great Britain. Fourteen debaters attended the

# A preliminary meeting of

The tunnel is named after Lt. ner earned an individual first place in the grand national debate championship in the infor-Lt. Thomas, one of the first Penn State alumni casualties in mative reading division.

fifth among the top 20.

the tournament.

national Debate teams which will tournament held in Evanston, Ill.

## Howard T. Smith

Dr. James Robertson is direc-

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#### Rise in Food Cost **Boosts Dorm Rate**

·A general rise in food costs during the past year has been given as the reason for a \$20 per semester increase in board at all campus dining halls. The increase is effective with the current sefreshman and upper-class candi-mester and brings the total board

Last year the Penn State men's team won the Pennsylvania state championship and Marlin Bren-

#### College Reduces Interclass Rate

By action of the College Board of Trustees at their spring meeting, the student interclass finance fee has been reduced from 75 to 50 cents a semester.

dates for the men's debate team will be beld Sept. 26 in 305 In a letter earlier in the summer to parents and students, Sparks. Joseph F. O'Brien, manager of the debate team, announced ager of the debate team, announced ed that tryouts for the team will be held Oct. 3.

In a letter earlier in the summer to parents and students, Samuel K. Hostetter, comptroller, explained that "the charge for meals at the College has been kept comparable with that at various dances held during the similar institutions and average vear. Last spring All-College Cabinet

### HISTORICAL EUTAW



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