



A Make-Believe Ocean

Torpedoes Fooled By Water Tunnel

By LIANNE CORDERO

Making torpedo models think they're gliding through an ocean is but one of the functions of the Garfield Thomas Water Tunnel.

Because of its unusual size the testing section can simulate the "feeling" of a body of water as large as an ocean

for a model torpedo up to eight inches in diameter.

The test section of the water tunnel is 48 inches in diameter and 14 feet long—larger than any other water tunnel in the Western countries.

A special mahogany liner treated for durability and shaped in a special way that controls currents of water being pushed past, covers the interior walls of the hollow tunnel.

Before this special development, model torpedoes had to be much smaller in size.

The test work and investigations undertaken by the water tunnel staff primarily concerns torpedoes, but other submerged bodies such as missiles and submarines are also tested.

In addition to its size, the tunnel is unusual in that it is specifically designed for acoustic measurements. Noise produced by devices under study can be measured by tunnel facilities. The noise of approaching torpedoes can be detected by enemy ships.

Another unusual feature of the tunnel is that the model torpedoes tested have self-contained motors. Prior to the construction of the Garfield Thomas Water Tunnel, torpedo propellers were tested alone.

The body of the torpedo has a significant effect in the performance of the propeller. For this reason testing models with self-contained motors to drive an attached propeller is important.

The water tunnel was constructed in 1949 as a part of the facilities of the Ordnance Research Laboratory. The laboratory works under contract for the Bureau of Ordnance of the Department of Navy and is staffed by University personnel.

The tunnel apparatus, which

looks like a hollow tube shaped into a huge rectangle 100 feet long and 32 feet high, was assembled before the building which houses it was built around it.

Almost all of the test work has been performed for the federal government although provisions have been made for tests for private industry. Much of the work is under security regulations.

Davage to Discuss Area Discrimination

"Discrimination in the State College Community" will be the subject for discussion tonight from 6:15 to 10 in Dining Room C at the Hetzel Union Building.

Robert H. Davage, assistant professor of psychology, will discuss a report he had compiled on discrimination in the community.

Jay Feldstein, All-University president, will serve as moderator for the session which is open to the public.

The discussion commemorates the 10th anniversary of the adoption of the Universal Declaration of Human Rights.

Junior English Group To Hear Harris Speak

Dr. Brice Harris, professor of English literature and past president of the National Council of Teachers of English, will speak at an organizational meeting of a junior affiliate group from 3 to 5 p.m. today in dining room "C" of the Hetzel Union Building.

The meeting is open to anyone interested in the teaching of English and language arts.

BA Faculty Athletes Try Court Sport

By JOHN BLACK

Their egos inflated by their football conquest, the athletically inclined faculty of the College of Business Administration will attempt to further assert their supremacy over the Business Administration sports scene when they take on a student team from Delta Nu Alpha, professional transportation fraternity, in a basketball game this afternoon.

Game time is 3:30 p.m. on the Lutheran Student Center court.

Captain Tony "Dead-eye" Mastro, hero of the faculty's gridiron victory, heads a potent list of cagers that includes Lawrence "Tex" Fouraker, "Big John" Coyle, G. K. "Baby Face" Nelson, "Bullet Bob" Kopko, Lawrence "Stilts" Strickland, "Jumpin' John" Wellingham, and Joe "Stretch" Abele.

"Baby Face" Nelson, most optimistic and outspoken of the pedantic group, boldly ventured this prognostication as he left the faculty seance in 123 Boucke: "We'll swamp them in basketball just like we did in football."

LaVerne Myers, captain of the Delta Nu Alpha aggregation, said, "They have the height advantage, but we hope to run them to death."

This game is the first in a proposed series that may evolve into an annual rivalry.

Club to Discuss Conduct

The Student Major Club will present a panel discussion, "Discipline and You" at 7 tonight in 3 White.

The discussion will be conducted by physical education faculty members. Only club members may attend.

Wilder to Present 'A Christmas Carol'

Jon Barry Wilder, a speech and theatre arts major, will present a portion of "A Christmas Carol" by Charles Dickens at 8 p.m. next Wednesday in 121 Sparks.

The event is being sponsored by the University Readers, the University Christian Association, and the Department of Speech.

Harriet Nesbitt, assistant professor of speech, has said, "This classic is enjoyed in the fullest only when read aloud. As long as Dickens lived, people gathered traditionally in groups of thousands to hear his 'Carol' during the Christmas season.

Wilder will characterize an hour's cutting of the famed classic used by Dickens when he read before public audiences. He will be introduced by Dean Ben Euwema, of the College of Liberal Arts.

Wilder has previously acted vivid characterizations on Johnson's "The Alchemist," Chekhov's "Uncle Vanya," Giraudeau's "The Enchanted," Shakespeare's "Merchant of Venice," and the du-readings of "Amphitryon 38," "Ario da Capo" and "The Lark." All were presented for the Inter-collegiate Reading Festival group.

Wilder is president of the Mike and Rostrum Club and is also active in Thespians and Players.

The public has been invited to attend the hour's reading of the story written 115 years ago by a man who is said to have discovered Christmas. As Mrs. Nesbitt puts it, "Millions would hardly consider Christmas to be Christmas without hearing Scrouge growl, Christmas! Humbug! and Tiny Tim echo, 'Go bless us every one!'"

Lonely Man—

(Continued from page four) a constant source of trouble and agitation . . ."

This charge was made despite the fact that Stroud's record had been perfect since Coolidge saved him from hanging.

In 1942 the 62-year-old prisoner was transferred from Leavenworth to Alcatraz. Behind him he left half a ton of laboratory equipment, 44 boxes of microscope slides and 22 live birds.

His solitary confinement continued, this time without his birds as company. Stroud occupied himself with an intensive study of penology and law. He wrote a 100,000-word history of the federal penal system.

This was confiscated by the

Federal Bureau of Prisons.

A friend wrote the prisoner's biography, "Birdman of Alcatraz." Stroud has never been allowed to read the book.

Articles about him have appeared in newspapers and magazines. Fellow scientists have asked for his release. Stroud would like to be free to spend the rest of his life in research.

The Federal Bureau of Prisons was asked in October 1957 to explain its handling of Stroud's case. An official replied that he neither could nor would release any facts concerning the prisoner.

The official said: "In the opinion of the bureau, Stroud belongs where he is and he will stay where he is unless his sentence is commuted by the President."

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Debators Rank 6th in Tourney

The Men's Debate Team scored an unofficial sixth place Nov. 21 and 22 in the University of Vermont Invitational Debate Tournament with a record of seven wins and three losses.

Bowdoin College unofficially took first place in the 52-school competition at Burlington, Ver.

The ranking was unofficial as no awards were given.

Marshall Jacobson and Arthur Ichter, the affirmative team, defeated teams from Toronto and Rutgers Universities and the College of the East Nazarene. They lost to Bowdoin College and Ohio Wesleyan.

Alan Elms and Leonard Julius, the negative team, defeated McGill, Syracuse and Long Island University debaters, and Middlebury College. They lost to Emerson College.

Debate Coach Harold J. O'Brien, associate professor of speech, accompanied the team to the tournament.

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