

### HARVEY C. HAYES, NAVY AUTHORITY

#### Head of Navy's Sound Laboratory Is Dead at 89

Harvey C. Hayes, pioneer development of underwater sound, died last Tuesday in Pétisborough, N. H. He was 89 years old and had been in 1947 as head of the Underwater Sound Laboratory at New London, Conn. Announcement of Dr. Hayes's death was made yesterday by Allan K. Cameron Jr., staff officer of the laboratory. Hayes was credited with the earliest development of absolute calibration of underwater sound transducers, the first to study such as the interference of dynamic noise with the sonar of two types of sonar used by the Navy at the end of World War II and produced under Navy auspices.

#### Work Begun in 1917

Hayes was a professor of physics at Swarthmore College. In 1917, he volunteered to the Navy to combat the German submarine threat. His early research had led him to conclude that the best way of detecting U-boats was through the use of underwater sound. In 1917 he received his Swarthmore postdoctoral fellowship at the Navy experiment station at Fort Trumbull in Groton, Conn. At the end of the war he returned to the Navy, and the Naval Research Laboratory was completed. In 1928 he became superintendent of the sound division.

World War II, Dr. Hayes developed improved sonar and dome material, improved transducer designs and methods of localizing the target beyond the resolution of the sonar beam. Recognizing the potentiality of the helicopter in antisubmarine warfare, he initiated the development of sonar equipment for them. Hayes was born in North Ferrisburgh, N. H., and educated at Swarthmore College and Harvard University, receiving his Ph.D. there in 1911. He began his teaching career at Swarthmore and went to Swarthmore in 1917.

#### Appointment From Fish Commission

His appointment from the Fish Commission in 1917.

### KENNETH LITTAUER, LITERARY AGENT, 74

Kenneth P. Littauer, who won the Croix de Guerre and other decorations as a pilot in World War I, and as an Army Air Forces color sergeant helped plan the D-Day bombings in World War II, died Sunday afternoon in a Norwalk, Conn., nursing home. He was 74 years old and lived in Wilton, Conn.

Mr. Littauer became a literary agent in 1949 and served in that capacity until a few weeks ago in his own New York concern of Littauer & Wilkinson.

Mr. Littauer won a scholarship to Colgate University, and later went to Europe where he was a reporter for The New York American in London and Paris.

Early in 1916, before the United States entered the war, the 23-year-old reporter enlisted in the Franco-Belgian air squadron. Later he transferred to the United States Air Service and was in the rank of commander of the 89th Observation Squadron. At the war's end he was a lieutenant colonel.

During the French Croix de Guerre, he was decorated with his own country's Distinguished Service Cross, the Belgian Croix de Guerre and the Belgian Croix de Leopold. During World War II Mr. Littauer was a senior intelligence officer with the Eighth Air Force in England.

After World War I, Mr. Littauer came to New York and worked for Street & Smith, the magazine publishers; from 1928 to 1948 he was fiction editor of Collier's.

He leaves his second wife, the former Helen Irwin Dowdy; 3 daughters; 11 grandchildren and 3 great-grandchildren.

### Georgine Ceri, Art Critic And Teacher, Dead at 84

Georgine Ceri, art critic and teacher, died Sunday in Calvary Hospital, the Bronx. She was 84 years old and lived at 81 Bedford Street.

Miss Ceri was born in Basel, Switzerland. She attended the Universities of Basel, Fribourg and Munich and the Sorbonne. Her book, "Man and His Images: A Way of Seeing," was published in 1957.

### Deaths

Bliss—Living beloved husband of Rose Bliss, 70, of 100 E. 10th St., died at St. Vincent's Hospital, New York City, July 14, 1968. He was 70 years old. Burial in the cemetery of the Holy Trinity Church, 100 E. 10th St., New York City. Flowers by the family.

LAGOEN—Mabel Whitner, 74, of Red Bank, N. J., died at the home of her daughter, Mrs. J. Edgar Lagoon, 100 E. 10th St., New York City, July 14, 1968. She was 74 years old. Burial in the cemetery of the Holy Trinity Church, 100 E. 10th St., New York City. Flowers by the family.

BLAU—Joseph, beloved husband of Lena, devoted father of Robert, William and Elizabeth, died at the home of his daughter, Mrs. J. Edgar Lagoon, 100 E. 10th St., New York City, July 14, 1968. He was 74 years old. Burial in the cemetery of the Holy Trinity Church, 100 E. 10th St., New York City. Flowers by the family.

BLAU—Lena, beloved wife of the late Joseph, devoted mother of Robert, William and Elizabeth, died at the home of her daughter, Mrs. J. Edgar Lagoon, 100 E. 10th St., New York City, July 14, 1968. She was 74 years old. Burial in the cemetery of the Holy Trinity Church, 100 E. 10th St., New York City. Flowers by the family.

BRADY—Aling R., 74, of 100 E. 10th St., died at the home of her daughter, Mrs. J. Edgar Lagoon, 100 E. 10th St., New York City, July 14, 1968. She was 74 years old. Burial in the cemetery of the Holy Trinity Church, 100 E. 10th St., New York City. Flowers by the family.

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