RVEY C. HAYES, NAR AUTHORITY

ead of Navy's Sound oratory Is Dead at 89

Harvey C. Hayes, pioneer development of underacoustics, died last Tues- Petersborough, N. H. He 0 years old and had re- in 1947 as head of the Underwater Sound Lab- y at New London, Conn. nouncement of Dr. Hayes's was made yesterday by . Allan K. Cameron Jr., staff officer of the lab- y.

Hayes was credited with ishing the earliest stand- of absolute calibration of water sound transducers. n the first to study such as the interference of dynamic noise with the ion of underwater echoes. f the two types of sonar ment used by the Navy at art of World War II was ed and produced under nervision.

Work Begun in 1917

Hayes was a professor of s at Swarthmore College. In 1917, he volunteered rvices to the Navy to combat the German sub- threat. He explained is early research had led conclude that the best of detecting U-Boats rough the use of unde sound. In 1917 he re his Swarthmore post t at the Navy experiment at Port Trumbull t ondon.

he end of the war he re- d with the Navy, and the Naval Research Lab- y was completed in e became superintendent sound division.

World War II, Dr. Hayes ped improved sonar and dome material, im- transducer designs and ques of localizing the beyond the resolution of onar beam. Recognizing tentiality of the helicop- d the blimp in antisub warfare, he initiated the opment of sonar equip or them.

Hayes was born in North , N. Y., and educated at rd University, receiving .D. there in 1911. He his teaching career at d and went to Swarth in 1912.

Assignment From Fu

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 colonel 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 20-year-old reporter enlisted in the Franco-Belgian air squadron. Later he transferred to the United States Air Service and rose to the rank of commander of the 88th Observation Squadron. At the war's end he was a lieutenant colonel.

Besides the French Croix de Guerre he was decorated with his own country's Distinguished Service Cross, the Belgian Croix de Guerre and the Belgian Ordre 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 1945 he was fiction editor of Collier's.

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

Georgine Oeri, Art Critic And Teacher, Dead at 54

Georgina Oeri, art critic and teacher, died Sunday in Calvary Hospital, the Bronx. She was 54 years old and lived at 81 Bedford Street.

Miss Oeri was born in Basel, Switzerland. She attended the Universities of Basel, Perugia and Munich and the Sorbonne. Her book, "Man and His Images: A Way of Seeing" [illegible]

Deaths

BILSKY—Irving, beloved husband of Rose, devoted father of Arlene Hertzog and Norman, dear brother of Hattie Harris, Anna Wortman, Essie Bowser, Simon and Morris. Chapel of Interfaith Services (Broadway at 155 St.) A.M. Please omit flowers.

BLAGDEN—Mabel Whitney of Red Bank, N. J., on [illegible], aged [illegible] years, beloved widow of the late Dexter Blagden, mother of Charles H. Sabin Jr. and grandmother of Charles H. Sabin III and Thomas N. Sabin. Funeral services at Christ Church, Middletown, N. J., on Wednesday, July 17, 1968, at 10 A.M. Interment, following at the Albany Rural Cemetery in Albany, N. Y. In lieu of flowers, contributions may be sent to Planned Parenthood.

BLAU—Jason, beloved husband of Lena, devoted father of Renee Weinstein and Beatrice Morris, dear brother of Estelle Ullman. Loving grandfather and great-grandfather. Services Tuesday, July 16 at 11:45 A.M., Riverside, 76 St. and Amsterdam Ave.

BLAU—Lena, beloved wife of the late Samuel, devoted mother of Melvin and Laurence, loving grandmother, dear sister of Ottilie Warfield and Emanuel Adolph and the late Seymour Adolph. Services "Park West" 119 West 72 St., Tuesday, July 16, 2 P.M.

BRADY—Alice R., suddenly, July 14, 1968, at Briarcliffe Manor, N. Y. Mother of Gov. Brady, Tarrytown, N. Y., and Marina Brady Jr., N. Y. C. Also survived by 4 grandchildren. Services there at Knollwild, Tenn.

BRAHM—Cyril, of Yaphank, L.I., on July 14, 1968. Beloved husband of Mae Brahm, dear brother of Lily and Kenny, devoted [illegible] of Irene and Ingeborg. Service at the Lakeside Chapel, Franklin Ave. at 12 St., Garden City, Tuesday, at 8 P.M. Interment Island Park Cemetery. Remembrances in memory of [illegible] Cancer Research Fund, Inc. of [illegible]

BURKE—Katherine [illegible], beloved husband of Serena [illegible], dear brother of Mrs. Cumming, [illegible], Clear Brooks, Mrs. Alfred Burgess, Mrs. Richard [illegible], Mrs. Lawrence Downes, Reading, Mrs. [illegible], Kingston, Ont., Canada, and Mrs. [illegible], Toronto, Ont., Canada. Funeral Home, 50 E. 78 St., Monday, 10 A.M. Interment Woodlawn Cemetery. Services [illegible] 11 A.M. Interment [illegible]

BURKE—Katherine [illegible], beloved husband of Serena [illegible], dear brother of Mrs. Alfred Burgess, Mrs. Richard [illegible], Mrs. Lawrence Downes, Reading, Mrs. [illegible], Kingston, Ont., Canada, and Mrs. [illegible], Toronto, Ont., Canada. Funeral Home, 50 E. 78 St., Monday, 10 A.M. Interment Woodlawn Cemetery. Services [illegible] 11 A.M. Interment [illegible]

BURNS—Kathryn, formerly of Lake Placid, [illegible] at Saranac Lake, N. Y., on [illegible] 1968. Beloved wife of [illegible], devoted mother of [illegible], dear sister of [illegible], Mary Burns, Mrs. [illegible] and Mrs. [illegible]. Funeral services [illegible] at 10 A.M. Burial [illegible] Cemetery, Lake Placid. Visiting hours [illegible] Frank West Chapel, 151 West 79 St. Brothers please attend.

WALTER KIERNAN, Mayor
[illegible], Executive Staff

BURNS—Kathryn, The Board of Trustees and Council of the Village of Lake Placid, N. Y., regret the passing of [illegible], beloved wife of [illegible], dear sister of [illegible], Mary Burns, Mrs. [illegible] and Mrs. [illegible]. Funeral services [illegible] at 10 A.M. Burial [illegible] Cemetery, Lake Placid. Visiting hours [illegible] Frank West Chapel, 151 West 79 St. Brothers please attend.

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[illegible], Executive Staff

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IRVIN H. DARLING, Mayor
LOUIS SUSSMAN, President

CAMPBELL—Dudley Dana, on July 14, 1968, at the home of his sister Mrs. Chalfant Robb, of Shrewsbury, Born at Cherry Valley, N. Y., graduate of the late Hopkins Grammar, Columbia College and Columbia Law School. Partner of Cravath, Swaine and Moore for [illegible] years. Member of Phi Beta Kappa, Phi Delta Phi, Psi Upsilon and the late Union League Club. Survived by his wife, Florence Lathrop Robb, a son, Dudley Dana Campbell Jr., of Princeton, N. J., a brother, Dr. Allen Campbell, of Cherry Valley, N. Y., and a granddaughter, Florence Campbell. Funeral service 10:30 A.M., Wednesday, July 17, First Presbyterian Church, Cherry Valley, N. Y. Remains at Clinton Funeral Home, Inc., Cherry Valley.

CLARKSON—Cornelia Livingston, on her 91st birthday, July 14, 1968, [illegible], N. Y., daughter of the late Howard and Alice Livingston Clarkson, sister of the late Mrs. Clarence Cragin, the late Mrs. John Henry Hammond and the late Mrs. Laurence S. Rockefeller, and of Mrs. Augustus Moore Whitridge and the late Dr. Gardner C. Clarkson, aunt of Mrs. [illegible] and of Mrs. [illegible]. Services [illegible] Church, [illegible], N. Y., Tuesday, July 16, at 11 A.M. Interment [illegible] Cemetery.

CONNOLLY—Hilda S., M.D., of Fort Washington, [illegible], July 11, 1968. Beloved husband of Frances C., dear father of Frances Dolores, Phillip Connolly, Lucille [illegible], Mrs. Eugene [illegible], Mrs. [illegible] and Mrs. [illegible]. Funeral Mass [illegible] Church, [illegible] Ave. at [illegible] St., Tuesday, July 16, at 9:30 A.M.

COSGROVE—Anna A. (nee Cusick), on July 14, 1968, beloved wife of the late William