

OBITUARIES

J. Barton Hoag, professor of physics at the University of Florida, died of leukemia in Gainesville on November 10, 1962, at the age of 64. Professor Hoag had just begun his third year on the Florida faculty. He had previously spent twenty years as professor and head of the Department of Physics and Chemistry at the US Coast Guard Academy, New London, Conn. At the time of his death he was working on the third revision of his well-known textbook, *Electron and Nuclear Physics*. The revision is being completed by a Florida physicist.

Born in Colorado Springs, he graduated from Colorado College in 1920 and received his PhD degree in physics from the University of Chicago in 1927. He spent the next thirteen years as a member of the Chicago faculty.

Professor Hoag returned to Illinois in 1955 as educational consultant to the Argonne National Laboratory, where he helped organize the "Atoms-for-Peace" International School of Science and Engineering. He served for a year at Argonne as associate director while on leave from the Coast Guard Academy.

He was a fellow of the American Physical Society, a member of the American Association of Physics Teachers, and a senior member of the Institute of Radio Engineers. Professor Hoag, who held the rank of captain (retired) in the US Coast Guard, was buried in Arlington National Cemetery.

Sidney Russ, British medical physicist, died in London on July 27 at the age of 84. Dr. Russ was a professor of physics at Middlesex Hospital Medical School, London, from 1920 until his retirement in 1946, and a professor emeritus of physics and fellow at the University of London.

He was born in London and educated at University College, London, where he received a BSc degree in 1905 and a DSc degree in 1909. As a Beit memorial fellow, he was subsequently engaged in research at the Cancer Research Laboratories of Middlesex Hospital. In 1913, he was appointed physicist to the Hospital, and, in 1920, he received an appointment to the Medical School's newly instituted Joel chair of physics. A pioneer in the use of radium and x rays in medicine, Dr. Russ later became interested in the biological and biophysical aspects of ionizing radiations and worked on the biological effects of x and gamma rays at low dose levels.

He was the first secretary of the British X-ray and Radium Protection Committee, scientific secretary of the National Radium Commission in England, secretary of the British Medical Research Council Radiology Committee, and president of the British Roentgen Society.

Allan T. Gwathmey died on May 12 at his home in Charlottesville, Va. Dr. Gwathmey, who was known for his work on surface properties of metal single crystals, was president of the Virginia Institute for Scientific Research and professor of chemistry at the University of Virginia. He was 59 years old.

He was educated at the Virginia Military Institute, where he received a BS degree in 1923, and at the Massachusetts Institute of Technology, where he received a second BS degree in 1928. He received his PhD in physical chemistry from the University of Virginia in 1938. He had been a member of the University faculty since 1939.

Dr. Gwathmey led the organization of the Virginia Institute for Scientific Research and, in 1948, was elected president of its Board of Trustees. He received the Oak Ridge Institute for Nuclear Studies Research Award in 1948, the Horsley Research Award in 1941, and the Meritorious Service Award of the Virginia Academy of Science, in 1963. He was a member of the American Crystallographic Association.

Julius E. Lillienfeld, former professor of physics at the University of Leipzig, Germany, died on August 28 at his home in Charlotte Amalie, V. I.

Dr. Lillienfeld's experiments involving roentgen radiation conducted during the early 1920's contributed to the development of the contemporary x-ray tube. He also worked with Count Ferdinand von Zeppelin on the design of hydrogen-filled dirigibles.

Born in Poland 81 years ago, Dr. Lillienfeld became a US citizen after coming to the Virgin Islands from Germany in 1935. He had been retired from active research since that time.

George Neilson Whyte, professor of physics at Queen's University in Kingston, Ont., died in Ottawa on April 13. He was 38 years old.

He was born in Ottawa and studied at Queen's University, where he was graduated in 1946 and later earned an MSc degree under the tutelage of Professor J. A. Gray. In 1947, he went to Princeton to study. After earning an AM and a PhD degree, he joined the Princeton faculty and served as an instructor in physics for a year. He returned to Ottawa in 1951 and became a member of the staff of the National Research Council of Canada. He spent the next seven years working on the physics of radiation dosimetry, and he and his colleagues at the NRC are credited with extensive contributions to the field. In 1958, he was appointed associate professor of physics at Queen's University. Shortly before his death, he became a full professor.

Professor Whyte was a member of the American Physical Society.