

NEWS OF MEMBERS

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In Memoriam: Alice M. Stoll

Alice M. Stoll, B.S., M.S., passed away in March 2014. She was a pioneer in aerospace medicine, conducting work on the effects of high G forces that resulted in many publications discussing the "Stoll Curve," which describes human tolerance to high G. Her work was a milestone in the efforts to understand how and when g-protective techniques should be applied. While at the NADC, she invented equipment and a method of analyzing heat transfer by flame contact. This provided knowledge about thermal burns, making it possible to rate different materials for their ability to protect humans, and led directly to the development of the first protective clothing for Navy personnel that was inherently fire resistant. These results spread to other military services and to fire departments throughout the world. She was recognized internationally as an influential scientific researcher in the field of thermal protection.

A native of Long Island, NY, Stoll graduated from Hunter College in New York City in



1938 with a B.S. in chemistry and physics. From 1938-1943, she worked as a Research Assistant at New York Hospital and Cornell University Medical College before enlisting in the Navy and serving as an active duty officer until 1946, when she entered the Naval Reserve. She retired from the Naval Reserve in 1966 with the rank of Commander. She attended Cornell University Graduate School at the Medical College and received an M.S. in physiology and biophysics in 1948. She stayed at the Medical College as a Research Associate until 1953, when she became a Research Physiologist at the Naval Air Development Center (NADC) in Warminster. She retired in 1980.

Stoll was named an Honorary Member of the Wing in 1980 for her work in protection from thermal injury. Her other honors include being named Federal Civil Service Employee of the Year in 1965, an Achievement Award from the Society of Women Engineers in 1969, numerous incentive awards from the NADC for her scientific publications and two invention patents, and the Paul Bert Award from the Aerospace Physiology Society in 1972. She served as Chairman of the Committee on Heat Transfer in Biotechnology of the American Society of Mechanical Engineers from 1967-1970 and was Chairman of its technical sessions and technical reviewer of its publica-

tions. Between 1970 and 1971, she was the Chairman of the Achievement Award Committee of the Society of Women Engineers and was one of five judges for the Achievement Award in 1972.

Stoll was a member of the American Physiological Society, the Biophysical Society, the American Society of Mechanical Engineers, the Society of Women Engineers, and the Information Council on Fabric Flammability. She was a Fellow of the American Association for Advancement of Science and the Aerospace Medical Association (AsMA). Within AsMA, she served as Chairman of the Associate Fellows, Chairman/Co-Chairman of AsMA's scientific sessions at its Annual Scientific Meetings, and a member of AsMA's Environmental Safety Committee. She had over 50 publications in professional journals, books, and symposia volumes.

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