



2024 NATIONAL INVENTORS
HALL OF FAME INDUCTEE

Born: Aug. 25, 1917

Died: March 5, 2014

Primary Connections:

- Naval Air Development Center: Head, Biophysics and Bioastronautics Division, 1964-80; Head, Thermal Division, 1960-64; Special Technical Assistant to the Research Director, 1956-60; Research Physiologist, 1953-56
- Cornell University Medical College: Research Associate, Department of Physiology, 1946-53; Research Assistant, 1938-43

Education:

- Hunter College: B.A., Chemistry and Physics, 1938
- Cornell University Medical College: M.S., Physiology and Biophysics, 1948

Military Service:

- U.S. Naval Reserve, World War II

Key Memberships/Awards:

- Aerospace Medical Association: Fellow, 1974
- Aerospace Physiology Society: Paul Bert Award, 1972
- Presidential Award Citation for Innovation, 1972
- Society of Women Engineers: Achievement Award, 1969
- American Association for the Advancement of Science: Fellow, 1958

10 Things You Need to Know About

Alice Stoll

Fire-Resistant Fibers and Fabrics

U.S. PATENT NO. 3,148,531

1. Stoll was born in 1917 on Long Island, New York.
2. Enlisting in the U.S. Naval Reserve during World War II, she was on active duty from 1943 through 1946 before serving in the Reserve for the next 20 years.
3. In 1966, Stoll retired from the Naval Reserve with the rank of commander in the Medical Service Corps.
4. Her research into thermal burns made 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, made with DuPont's Nomex®.
5. Today, Nomex is one of the most common fibers for making fire-protective clothing and meets standards established by industry associations and governments for workplace safety.
6. Nomex is used in protective apparel for military pilots, firefighters, racecar drivers and industrial workers who are exposed to hazards from flash fires and electrical arcs.
7. Stoll was chair of the board of the Heat Transfer in Biotechnology Technical Committee's Heat Transfer Division of the American Society of Mechanical Engineers.
8. In 1965, she was named Civil Servant of the Year by the Federal Business Association and Federal Personnel Council of Philadelphia.
9. Stoll was named a fellow of the Aerospace Medical Association and the American Association for the Advancement of Science.
10. She had two U.S. patents.