



Celebrating Women In Computer Science -- Ada To Allen Women's History Month 2007



Ada Byron King



Frances Allen

Frances Allen. Born 1932. First woman to receive the Turing Award the nation's top computer honor. The award was granted for her work on the theory and practice of optimizing compiler techniques.

Kay McNulty Mauchly Antonelli. Born 1920. Served as a "computer," a name given to a group of young women mathematicians who made calculations for tables of firing and bombing trajectories during World War II. The work of this group prompted the development of ENIAC.

Anita Borg. Born 1949. Founding director of the Institute of Women and Technology.

Alice Burks. Born 1920. Worked along with Kay McNulty as a "computer." Wrote extensively on the development of ENIAC.

Edith Clarke. Born 1883. First woman to be awarded a MSc (computer) from MIT. Patented a "graphic calculator." Civil engineer who developed mathematical models for complex power systems.

Alexandra Illmer Forsythe. Born 1918. Author of a series of textbooks on computer science. Her first book was the first written in computer science.

Carly Fiorina. Born 1954. Chairman of the board of Hewlett-Packard, 2000-2005. Named most powerful woman in business by *Fortune* Magazine, 1998-2003.

Margaret R. Fox. Born 1916. Chief of the Office of Computer Information in the National Bureau of Standards Institute for Computing Machinery.

Adele Goldstine. Born 1920. Assisted her husband, Dr. Herman Goldstine, in the creation of ENIAC, the world's first electronic digital computer. Authored the *Manual For The ENIAC*.

Evelyn Boyde Granville. Born 1924. One of the first African-American women to gain a Ph.D. in Mathematics. Developed computer programs for the NASA Mercury and Apollo projects.

Erna Schneider Hoover. Born 1926. Invented a computerized switching system for telephone traffic. Awarded one of the first software patents ever issued.

Grace Murray Hopper. Born 1906. Invented the computer compiler. Originated the term 'computer bug.'

Ada Byron King, Countess of Lovelace. Born 1815. Daughter of Lord and Lady Byron. She worked with Charles Babbage to create a set of instructions and possible uses for his "analytical engine." The "analytical engine" although never built is referred to as the first computer.

Barbara Liskov. Born 1939. Professor of Engineering at MIT. Led the design and implementation of Argus, the first programming language to support data abstraction, the first high-level language implementation of distributed programs, and Thor, an object-oriented database system.

Rosa Peter. Born 1905. Founder of the recursive function theory and applied the theory to computers.

Meg Whitman. Born 1956. CEO of eBay since 1998. Listed as the most powerful woman in business by *Fortune Magazine* in 2004.

Joan Margaret Winters. Born 1940. A key figure in describing the importance of human factors in the design of computer hardware and software.

BIOGRAPHICAL RESOURCES AT SIBL**

A to Z of Computer Scientists. Harry Henderson. New York: Facts On File, 2003.
Call No. *R-SIBL QA76.2 .A2 .H46.

American Men and Women of Science: the Physical and Biological Sciences, 12th - ed.
New York, R. R. Bowker, 1971-. Call No. *R-SIBL Q141 .A474

International Biographical Dictionary of Computer Pioneers, J.A.N. Lee, editor. Chicago : Fitzroy Dearborn, 1995. Call No. *R-SIBL QA76.2 .A2 .I58

Notable Women Scientists / Pamela Proffitt, editor. Detroit: Gale Group, c1999.
Call No. *R-SIBL Q141 .N736

**Please check CATNYP (Research) and LEO (Circulating) catalogs for books on specific engineers and scientists. Also, try these subject headings:

Women Computer Engineers

Women Computer Scientists

WEBSITES

IEEE Virtual Museum

Features interesting exhibits on women and technology.

www.ieee-virtual-museum.org

Women in Technology International (WITI)

An association honoring past and encouraging current women in technology.

<http://www.witi.com/center/witimuseum/halloffame/1997/eniac.php>