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.


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.


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.


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**


American Men and Women of Science: the Physical and Biological Sciences, 12th - ed.


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.