Women in Science and Engineering

The Arts & Sciences Libraries (ASL) permanent exhibit: Women in Science and Engineering, features photographs and biographies of famous women scientists. The exhibit, on display in the Science & Engineering Library (SEL), provides a visual statement to acknowledge the scientific and technical achievements of women. The current group of women featured in this revolving exhibit are:

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Women have contributed richly to the achievements of science and engineering in the United States. As pointed out by the National Women’s History Project, it is unfortunate that many of these accomplishments have been forgotten, ignored, and even hidden as a result of cultural and social norms. Recent years have seen great strides in recognizing the contributions of women in all disciplines and fields of study.

The National Women’s History Project has been one of the organizations to lead the way. The Women in Mathematics and Science poster and Outstanding Women in Math and Science photographic series were produced by the National Women’s History Project (http://www.nwhp.org/) in Windsor, California.

SEL has also acquired the poster set, Inventive Women, which features the accomplishments and patents of eleven women inventors. A portrait of the inventor, a brief description of her achievements, and a list of five other women inventors in the same field comprise each poster. These posters are complemented by a poster which provides a narrative of the history of women inventors. (This series was also produced by the National Women’s History Project and partially funded by a grant from AT&T.)

Profiles:

- Ada, Countess of Lovelace (http://www.agnesscott.edu/lriddle/women/love.htm) (1815-1852) Mathematician
- Ada, Countess of Lovelace (http://www-gap.dcs.st-and.ac.uk/%7Ehistory/Mathematicians/Lovelace.html) (1815-1852) Mathematician
- Maria Gaetana Agnesi (http://www.agnesscott.edu/lriddle/women/agnesi.htm) (1718-1799) Mathematician
- Maria Gaetana Agnesi (http://www-gap.dcs.st-and.ac.uk/%7Ehistory/Mathematicians/Agnesi.html) (1718-1799) Mathematician
- Florence Bascom (http://www.usgs.gov/125/articles/bascom.html) (geologist)
- Elizabeth Blackwell (http://www.nlm.nih.gov/hmd/blackwell/) (1821-1910) 1st U.S. woman to earn medical degree
Annie Jump Cannon (http://www.wellesley.edu/Astronomy/jump/ann/)(astronomer)
Rachel Carson (http://www.rachelcarson.org/) (marine biologist, author)
Maurice Curie (http://www.as.org/history/bio/curie/contents.html) (1867-1934) Physics Nobel Prize 1903
Dian Fossey (http://www.webster.edu/?Eowolflindianfossy.html) (primatologist)
Rosalind Franklin (http://www.sdsc.edu/Science/Women/franklin.html) (1920-1958) DNA Structure
Lillian Moller Gilbreth (http://www.seds.org/messier/xtra/bios/gilbreth.html) (industrial engineer)
Jane Goodall (http://www.janepostal.org/) (1934- ) Primatologist
Beulah Louise Henry (http://www.csupomona.edu/%7Eplin/inventors/henry.html) (inventor: mechanics, toys)
Caroline Herschel (http://www-gap.dcs.st-and.ac.uk/~history/Mathematicians/Herschel_Caroline.html) (1750-1848) Astronomer
Caroline Herschel (http://www.seds.org/messier/xtra/bios/caroline.html) (1750-1848) Astronomer
Leta Stetter Hollingworth (http://www.webster.edu/?Eowolflleta.html) (education psychologist)
Grace Murray Hopper (http://www.sdsc.edu/Science/Women/hopper.html) (mathematician)
Ida Hyde (http://library.thinkquest.org/20117/hyde.html?&topic1=1&task=0903) (physiologist)
Hypatia of Alexandria (http://www-gap.dcs.st-and.ac.uk/~history/Mathematicians/Hypatia.html) (ca. 37-415) Astronomer
Rita Levi-Montalcini (http://www.nobel.se/medicine/laureates/1986/levi-montalcini-autobio.html) [biologist]
Margaret Mead (http://www.mead2001.org/) (cultural anthropologist)
Margaret Mead (http://www.interculturalstudies.org/Mead/index.html) (cultural anthropologist)
Anna Pell Wheeler (http://www.awis.org/) (effecetual engineer and astronaut)
Florence Sabbin (http://www.nas.edu/history/members/sabin.html) (1871-1953) Medical Researcher
Miranda Stuart (http://www.geocities.com/eschiva/stuart.html) (1795?-1865) AKA: Dr James Barry, 1st woman MD in UK
Harriet Russell Strong (http://www.csupomona.edu/%7Eplin/inventors/strong.html) (inventor: flood control dams)
Leta Stetter Hollingworth (http://www.webster.edu/?Eowolflleta.html) (education psychologist)
Marilyn Trumke (http://www.awis.org/) (inventor: optical motion/position systems)
Mary Engle Pennington (http://www.archives.upenn.edu/histy/features/women/bio.html) (inventor: cold storage rooms)
Mary Florence Potts (http://www.awis.org/mypotts.html) (inventor: sad irons)
Judith Resnick (http://www.christa.org/resnick.html) (electrical engineer and astronaut)
Florence Sabbin (http://www.nas.edu/history/members/sabin.html) (1871-1953) Medical Researcher
Valerie Thomas (http://www.awis.org/) (inventor: image processing)
Anna Pell Wheeler (http://www.awis.org/) (inventor: optical motion/position systems)
Chien-Shiung Wu (http://www.physics.ucla.edu/%Eowolflwu.html) (nuclear physicist)

Related Websites
UB librarians have compiled the following list of Internet resources that highlight women's achievements in science, engineering, technology, and mathematics:

Advancing Womens' Careers
http://www.advancingwomen.com/ (http://www.advancingwomen.com/)

L'association Femmes et Sciences

Association for Women in Science
http://www.awis.org/ (http://www.awis.org/)

Australian Women in Physics

BeWise (Belgian Women in Science). BeWiSe is dedicated to achieving equal and full participation of women in all scientific disciplines and at all levels, because diversity will promote scientific excellence and progress further.
http://bewise.naturalsciences.be/ (http://bewise.naturalsciences.be/)

Celebrate National Women's History Month

Biographies of Women Mathematicians
http://www.scottian.edu/riddle/women/alpha.htm (http://www.scottian.edu/riddle/women/alpha.htm)

German association of Women in Science and Technology
http://www.nut.de/ (http://www.nut.de/)

IEEE Women in Engineering Home Page

National Women's History Project
http://www.nwhp.org/ (http://www.nwhp.org/)

Women Noble Prize Winners

Society of Women Engineers
http://www.swe.org/ (http://www.swe.org)
Recruiting Women

Places to Go For Data:

- Data on science infrastructure: education, employment, support, etc.
- Information on women in science
  - Association for Women in Science [http://www.awis.org](http://www.awis.org)
- Information on academic women:
  - American Association of University Women [http://www.aauw.org](http://www.aauw.org)

Specific References:


Acknowledgements:

The Outstanding Female in Math Chair and Science photograph series was provided to SEL by Professor Mary Bisson [http://wings.buffalo.edu/academic/department/fnm/bio-sci/faculty/visor.html](http://wings.buffalo.edu/academic/department/fnm/bio-sci/faculty/visor.html), (UB Department of Biological Sciences). For a story of the first Professor in the Department of Biological Sciences, see the March 7, 2002 issue of The Reporter: [http://www.buffalo.edu/reporter/vol33/vol33n20/n4.html](http://www.buffalo.edu/reporter/vol33/vol33n20/n4.html)

All visual materials from the National Women's History Project (NWHP). In addition to the posters and photo displays used for SEL's exhibit, NWHP produces a variety of educational materials and women's history resources which are described in their Women's History Catalog.

National Women's History Project
7738 Bell Road
Windsor, CA 95492-8518
nwhp@aol.com
[http://www.nwhp.org](http://www.nwhp.org)
707/ 838-6000 voice
707/838-0478 fax