

Resources for Women in the STEM Fields: Books and Online Sources

(Science, Technology, Engineering, and Mathematics)

By Nan Schichtel and David Cope

BOOKS

Note: Titles in this list are available through MeLCat – the Michigan Electronic Library statewide library catalog. Many are also available at GRCC's Library & Learning Commons.

Ambrose, Susan A. Journeys of Women in Science and Engineering : No Universal Constants. Philadelphia PA: Temple University Press, 1997. Available via MeLCat Michigan Electronic Library. GRCC=Reference 925 J826 1997.

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Bart, Jody. Women Succeeding in the Sciences : Theories and Practices Across Disciplines. West Lafayette IN: Purdue University Press, 2000. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Barton, Angela Calabrese. Feminist Science Education. New York: Teachers College Press, 1998. Available via MeLCat Michigan Electronic Library. GRCC=E-Book.

Bergland, Renée. Maria Mitchell and the Sexing of Science : An Astronomer among the American Romantics. Boston MA: Beacon Press, 2008. Available via MeLCat Michigan Electronic Library. GRCC=520.92 B454.

Bernstein, Leonard, Alan Winkler, and Linda Zierdt-Warshaw. African and African American Women of Science. Maywood NJ: Peoples Pub. Group, 1998. Available via MeLCat Michigan Electronic Library. 925.082 B458a.

Bystydzienski, Jill M., and Sharon R. Bird. Removing Barriers : Women in Academic Science, Technology, Engineering, and Mathematics. Bloomington: Indiana University Press, 2006. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Canel, Annie, Ruth Oldenziel, and Karin Zachmann. Crossing Boundaries, Building Bridges : Comparing the History of Women Engineers, 1870s-1990s. Amsterdam: Harwood Academic, 2000. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Committee on Maximizing the Potential of Women in Academic Science and Engineering, and Committee on Science, Engineering and Public Policy. Beyond Bias and Barriers : Fulfilling the Potential of Women in Academic Science and Engineering. Washington DC: National Academies Press, 2006. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Committee on Maximizing the Potential of Women in Academic Science and Engineering, et al. Biological, Social, and Organizational Components of Success for Women in Academic Science and Engineering : Report of a Workshop. Washington DC: National Academies Press, 2006. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Daniell, Ellen. Every Other Thursday: Stories and Strategies from Successful Women Scientists. New Haven CT: Yale University Press, 2006. Available via MeLCat Michigan Electronic Library. GRCC=305.435 D227c.

Davis, Cinda-Sue. The Equity Equation : Fostering the Advancement of Women in the Sciences, Mathematics, and Engineering. 1st ed. San Francisco CA: Jossey-Bass Publishers, 1996. Available via MeLCat Michigan Electronic Library.

Eisenhart, Margaret A., et al. Women's Science : Learning and Succeeding from the Margins. Chicago IL: University of Chicago Press, 1998. Available via MeLCat Michigan Electronic Library. GRCC=305.435 E183w.

- Etzkowitz, Henry, et al. Athena Unbound : The Advancement of Women in Science and Technology. Cambridge: Cambridge University Press, 2000. Available via MeLCat Michigan Electronic Library. GRCC=500.82 ET99a
- Fox, Mary Frank, Deborah G. Johnson, and Sue Vilhauer Rosser. Women, Gender, and Technology. Urbana: University of Illinois Press, 2006. Available via MeLCat Michigan Electronic Library.
- Hall, Linley Erin. Who's Afraid of Marie Curie? : The Challenges Facing Women in Science and Technology. Emeryville, CA Seal Press, c2007.;, 2007. Available via MeLCat Michigan Electronic Library. GRCC=305.435 H144w.
- Henrion, Claudia. Women in Mathematics : The Addition of Difference. Bloomington IN: Indiana University Press, 1997. Available via MeLCat Michigan Electronic Library. GRCC=E-book.
- Lederman, Muriel, and Ingrid Bartsch. The Gender and Science Reader. London ; New York: Routledge, 2001. Available via MeLCat Michigan Electronic Library.
- Long, J. Scott, and National Research Council, Committee on Women in Science and Engineering. From Scarcity to Visibility : Gender Differences in the Careers of Doctoral Scientists and Engineers. Washington DC: National Academy Press, 2001. Available via MeLCat Michigan Electronic Library. GRCC=E-book.
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- Marzabadi, Cecilia H., and American Chemical Society, Women Chemists Committee. Are Women Achieving Equity in Chemistry? : Dissolving Disparity and Catalyzing Change. Washington DC: American Chemical Society : Distributed by Oxford University Press, 2006. Available via MeLCat Michigan Electronic Library.

McGrayne, Sharon Bertsch. Nobel Prize Women in Science : Their Lives, Struggles, and Momentous Discoveries. 2nd ed. Washington DC: Joseph Henry Press, 1998. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

National Academy of Engineering, Committee on Diversity in the Engineering Workforce. Diversity in Engineering : Managing the Workforce of the Future. Washington DC: National Academy Press, 2002. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

National Research Council, Committee on Women in Science and Engineering, Office of Scientific and Engineering Personnel. Who Will do the Science of the Future? : A Symposium on Careers of Women in Science. Washington DC: National Academy Press, 2000. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

National Research Council, Committee on Women in Science and Engineering, and National Research Council, Committee on Policy & Global Affairs. Female Engineering Faculty in the US Institutions : A Data Profile. Washington DC: National Academies Press, 1998. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

National Research Council, Division of Earth and Life Studies, Board on Chemical Sciences and Technology, Chemical Sciences Roundtable. Minorities in the Chemical Workforce : Diversity Models that Work : A Workshop Report to the Chemical Sciences Roundtable. Washington DC: National Academies Press, 2003. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Pasternak, Ceel, and Linda Thronburg. Cool Careers for Girls in Computers. Manassas Park VA: Impact, 1998. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Rosser, Sue Vilhauer, Bonnie Kelly, and University of South Carolina Division of Women's Studies. Educating Women for Success in Science & Mathematics. Columbia SC: Division of Women's Studies University of South Carolina, 1994. Available via MeLCat Michigan Electronic Library.

Rosser, Sue Vilhauer, Janice A. Radway, and Nancy Folbre. New Perspectives in Gender Studies : Research in the Fields of Economics, Culture and Life Sciences. Linköping, Sweden; Stockholm, Sweden: Dept. of Gender Studies, Linköping University; Distributed by Almqvist & Wiksell International, 1998. Available via MeLCat Michigan Electronic Library.

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---. Teaching Science and Health from a Feminist Perspective : A Practical Guide. New York: Pergamon Press, 1986. Available via MeLCat Michigan Electronic Library.

---. Teaching the Majority : Breaking the Gender Barrier in Science, Mathematics, and Engineering. New York: Teachers College Press, 1995. Available via MeLCat Michigan Electronic Library.

---. Women, Science, and Myth : Gender Beliefs from Antiquity to the Present. Santa Barbara, Calif: ABC-CLIO, 2008. Available via MeLCat Michigan Electronic Library.

---. Women, Science, and Society : The Crucial Union. New York: Teachers College Press, 2000. Available via MeLCat Michigan Electronic Library.

---. Women's Health - Missing from U.S. Medicine. Bloomington IN: Indiana University Press, 1994. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Schiebinger, Londa. Gendered Innovations in Science and Engineering. Stanford CA: Stanford University Press, 2008. Available via MeLCat Michigan Electronic Library. GRCC=305.435 G285.

Shaywitz, Sally, Jong-on Hahm, and National Research Council, Committee on Women in Science and Engineering. Achieving XXcellence in Science : Role of Professional Societies in Advancing Women in Science : Proceedings of a Workshop AXXS 2000. Washington DC: National Academies Press, 2004. Available via MeLCat Michigan Electronic Library. GRCC=E-book.

Sheffield, Suzanne Le-May. Women and Science : Social Impact and Interaction. Santa Barbara CA: ABC-CLIO, 2004. Available via MeLCat Michigan Electronic Library. GRCC=305.435 SH39w.

Stewart, Abigail J., Janet E. Malley, and Danielle LaVaque-Manty. Transforming Science and Engineering : Advancing Academic Women. Ann Arbor MI: University of Michigan Press, 2007. Available via MeLCat Michigan Electronic Library. GRCC=305.435 T687.

Strohmaier, Brigitte, Robert Rosner, and Paul F. Dvorak. Marietta Blau, Stars of Disintegration : Biography of a Pioneer of Particle Physics. English ed. Riverside CA: Ariadne Press, 2006. Available via MeLCat Michigan Electronic Library. GRCC=305.435 W349w.

Tuana, Nancy. Feminism & Science. Bloomington IN: Indiana University Press, 1989. Available via MeLCat Michigan Electronic Library.

Watts, Ruth. Women in Science : A Social and Cultural History. London: Routledge, 2007. Available via MeLCat Michigan Electronic Library. GRCC=305.435 W349w.

Williams, F. Mary, and Carolyn J. Emerson. Becoming Leaders : A Practical Handbook for Women in Engineering, Science, and Technology. Reston VA: American Society of Civil Engineers, 2008. Available via MeLCat Michigan Electronic Library. GRCC=500.82 W670.

Wyer, Mary. Women, Science, and Technology : A Reader in Feminist Science Studies. 2nd ed. New York: Routledge, 2009. Available via MeLCat Michigan Electronic Library. GRCC=500.82 W842wy.

WOMEN IN SCIENCE AND MATH: SOME ONLINE SOURCES

WOMEN IN SCIENCE

Basic Resources

The Association for Women in Science

<http://www.awis.org/>

The Field Museum's Women in Science: Interviews with 13 women about why they chose careers in science: http://www.fieldmuseum.org/exhibits/exhibit_sites/wis/default.htm

Women-Related Web Sites in Science/Technology:

http://userpages.umbc.edu/~korenman/wmst/links_sci.html

Women in Science Links:

<http://spider.ipac.caltech.edu/~rebull/womensci.html>

National Science Foundation documents on Women and Minorities in Science and Engineering:

http://people.mills.edu/spertus/Gender/wom_and_min.html

Women and Science (with bibliography and links to reports):

<http://physics.uwstout.edu/staff/mccullough/womensci.htm>

Women, Gender and Science:

<http://homepages.gac.edu/~mmcdermo/women-science-links.html>

The Society of Women Engineers:

<http://societyofwomenengineers.swe.org/>

National Institute for Women in Trades, Technology & Science:

<http://www.iwitts.com/>

Women Entrepreneurs in Science and Technology:

<http://www.westorg.org/mc/page.do>

Association for Women in Science Educational Foundation:

<http://www.awis.org/careers/edfoundation.html>

Women for Science at Interacademy Council (with complete pdf report);

<http://www.interacademycouncil.net/?id=11228>

Women in Computer Science:

<https://agora.cs.uiuc.edu/display/wcs/Home;jsessionid=5B70F51BA3FC0822DDEA91D7CA1C0195>

AAAS International Office: Women's International Science (funding, partnerships, bibliography, etc.):

<http://www.aaas.org/programs/international/wist/>

Europa / European Commission Women in Science (with links to Helsinki Group and others):

<http://ec.europa.eu/research/science-society/index.cfm?fuseaction=public.topic&id=27&lang=1&CFID=1950673&CFTOKEN=8db26535ab50c880-02BA362E-C5DF-E516-782BE3ADDD84F107#>

European Association for Women in Science Engineering and Technology:

<http://www.witec-eu.net/>

Women in Science Educational Programs

University of Wisconsin System Women in Science Program:

<http://www.uwosh.edu/wis/>

University of Wisconsin Women in Science and Engineering Leadership Institute:
<http://wiseli.engr.wisc.edu/index.html>

University of Michigan Women in Science and Engineering:
<http://www.wise.umich.edu/>

University of Michigan Women in Science and Engineering Residence Program:
<http://www.wiserp.umich.edu>

University of California-Berkeley Women in Computer Science and Electrical Engineering:
<http://www-inst.eecs.berkeley.edu/~wicse/>

Stanford University Women in Computer Science:
<http://www.stanford.edu/group/wics/>

University of Washington Women in Science and Engineering:
http://www.engr.washington.edu/curr_students/studentprogs/wise.html/

Dartmouth College Women in Science Project:
<http://www.dartmouth.edu/~wisp/>

Carnegie Mellon University Women at the School of Computer Science:
<http://women.cs.cmu.edu/>

Brown University Women in Science and Engineering:
http://www.brown.edu/Student_Services/WiSE/

Texas A & M University: Aggie Women in Computer Science:
<http://awics.cs.tamu.edu/>

Kean University Women into Science and Technology:
<http://www.kean.edu/~wistproj/>

Delta Sigma Epsilon Graduate Women in Science:
<http://www.gwis.org/>

Articles

Inside Higher Ed: "The Mentoring Gap for Women in Science":
<http://www.insidehighered.com/news/2008/02/28/mentor>

Kristen Philipkoski on “How Women Make Science Work.”

<http://www.wired.com/science/discoveries/news/2000/12/40757>

WOMEN AND MATHEMATICS

Basic Resources

The Association for Women in Mathematics:

<http://www.awm-math.org/>

Women and Mathematics Information Server:

<http://www.mystery.com/WAM/>

Key Issues: Women in Mathematics:

<http://mathforum.org/social/math.women.html>

Women & Mathematics Network:

<http://www.maa.org/wam/>

Women in Math Project (U of Oregon):

<http://darkwing.uoregon.edu/~wmnmath/>

Black Women in Mathematics (SUNY@Buffalo):

<http://www.math.buffalo.edu/mad/wmad0.html>

Resources for Women in Mathematics (Canadian):

<http://www.math.ca/Women/>

Yale University / Past Notable Women of Computing and Mathematics:

<http://cs-www.cs.yale.edu/homes/tap/past-women.html>

Biographies of Women Mathematicians

<http://www.agnesscott.edu/Lriddle/women/women.htm>

AWM Women in Mathematics student chapter at the U of Maryland:

<http://www.math.umd.edu/~wim/>

Women and Mathematics Education:

<http://www.wme-usa.org/>

Women and Mathematics Educational Programs

EDGE: Enhancing Diversity in Graduate Education / Program for Women in Mathematics:

<http://www.edgeforwomen.org/>

Center for Women and Mathematics at Smith College:

<http://math.smith.edu/center/>

University of Pennsylvania Women in Mathematics:

<http://www.math.upenn.edu/WIM.html>

Northwestern University Women in Math:

<http://www.math.northwestern.edu/wim/>

University of Michigan Women in Science and Engineering Residence Program:

<http://www.wiserp.umich.edu/>

Women in Math at the University of Wisconsin:

<http://www.math.wisc.edu/~wimaw/>

Eastern Illinois University Women in Science and Mathematics:

<http://www.eiu.edu/~wism/>

Rutgers University Office for the Promotion of Women in Science, Engineering, and Mathematics:

<http://sciencewomen.rutgers.edu/>

Women and Mathematics Mentoring Program (Durham, North Carolina):

<http://www.womenandmathmentoring.org/>

Women in Mathematics Celebrations and Conferences

University of Illinois at Urbana-Champaign Women in Mathematics Seminar:

<http://www.math.uiuc.edu/~ctsai6/women/>

Nebraska Conference for Undergraduate Women in Mathematics (Jan 2009):

<http://www.math.unl.edu/~ncuwm/11thAnnual/>

MIT Women in Math: A Celebration (April, 2008):

<http://math.mit.edu/womeninmath/>

Princeton University: Women and Mathematics (a program of the Institute for advanced study):

<http://www.math.ias.edu/womensprogram/>

University of Texas Distinguished Women in Mathematics Speaker Series:

<http://www.ma.utexas.edu/users/wmath/>

Articles

“Has the Woman in Mathematics Problem Been Solved?”

<http://www.ams.org/notices/200407/comm-women.pdf>

U of Michigan Study Helps Define Why Fewer Women Choose Math-based Careers:

<http://www.sciencedaily.com/releases/2003/05/030526104537.htm>