Exhibits

There were several exhibits on display at the conference, highlighting PWG project accomplishments, research and products:

Advocates for Women in Science, Engineering and Mathematics (AWSEM)
Contact: Gail Whitney, gwhitney@admin.ogi.edu.

The Association for Women in Science (AWIS), AWIS Mentoring
Contact: Kate Durocher, 202-326-8940, awis@awis.org; www.awis.org.

Educational Equity Concepts Inc.
Contact: edequity@admin.con2.com.

Gender-Equity in Science, Engineering and Mathematics Education: Making Connections for 3rd to 5th Grade Girls
Contact: Sara A. Cohen, 303-556-5315, SACohen111@aol.com.

Mathematical Explorations for Girls Achievement (MEGA) Camp Contacts: Julie Glass, JGLASS@gauss.sci.csuhayward.edu; Kathy Hann at khann@mcs.csuhayward.edu.

Plugged In!
Contact: Sue Metzler, 816-358-8750, smetzler@plugged-in.org; www.plugged-in.org.

Portfolios to Increase the Number of Women in Mathematics
Contact: Lawrence A. Sher, lawsher@yahoo.com.

Project EFFECT
Contact: Judy Meuth, 509-335-4382.

Teaching SMART
Contact: Pat Jonas, 800-529-1400, tsmart@rapidnet.com.

Transactional Writing: Empowering Women and Girls to Win at Mathematics
Contacts: Dr. Janet Rich, 305-237-7489; Dr. Suzanne S. Austin, saustin@kendall.mdcc.edu.

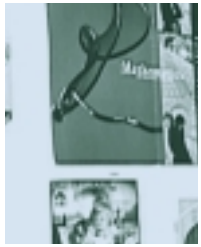
Wildlife Science Careers Program
Contact: Annette Berkovits, 718-220-8144.

Women Who Walk Through Time
Contact: Dr. Marjorie A. Chan, 801-581-6551, machan@mines.utah.edu; www.mines.utah.edu/geology/video.

Exhibit Highlight

Pam Davis' information dissemination project, *Visualizing Women in Mathematics, the Physical Sciences, and Technology: The Role of Personal Choice and Inspiration in a Scientist's Life*, targets young women, particularly at the high-school level. Davis' work on this project includes a series of gallery-quality posters of women in SEM, a study guide targeted at high-school girls with biographical information about those depicted, along with educational hands-on activities related to their respective fields of expertise, and other educational resources. Information in the study guide is to be made available on the World Wide Web. Short videotaped interviews with the women also are to be produced. The project seeks to humanize the image of science and the scientist to encourage young women students to see science and research as possible careers for them. The use of high-quality, attractive and accessible contemporary art and graphics, along with the use of other media, is expected to further the perception of science and technology as inviting, exciting, rewarding career choices for women.


We Can Do It!



About the Directorate for Education and Human Resources

The Directorate for Education and Human Resources (EHR) invests hundreds of millions of dollars annually in support of ambitious programs designed to improve science, mathematics, engineering, and technology education; to cultivate the science and technology work force; and to elevate the public's scientific literacy.

EHR is unique among NSF's Directorates, each of which has a special purpose and is designed to meet a distinctive need. While all the discipline-specific Directorates support a variety of education projects that pertain to their respective fields, EHR is dedicated solely to furthering education and developing human resources in science and technology as a whole.

Working closely with the other NSF Directorates—as well as cooperating with federal, state, and local entities—EHR builds its education and human resources agenda according to three broad principles:

1 All children can and should learn challenging science, mathematics, and technology content.
2 No individual's talents, dreams, and hard work should be discounted. Our nation's most valuable resource is the diversity of its people.
3 Science, mathematics, engineering, and technology are relevant not only to those who practice research in these fields, but to all people. They contribute to our nation's future and enrich our personal lives.

Guiding EHR in its programmatic activities are five long-term strategic goals:

1 To help ensure, through a nationwide effort known as "systemwide reform," that first-rate science, mathematics, and technology education is available to every elementary and secondary student in the United States, regardless of gender, race, ethnicity, disability status, or linguistic background.
2 To help ensure access to the best possible post-secondary education for those who elect to pursue careers in science, mathematics, engineering, and technology and to provide opportunities for nonspecialists to broaden their general scientific backgrounds.
3 To ensure that colleges and universities yield the well-qualified and versatile scientists, mathematicians, engineers, and technologists we need to meet the demands of the nation's workplaces.
4 To ensure the training of a highly qualified new generation of teachers of science, mathematics, engineering, and technology at all levels and to support the continuing efforts of those already in the work force to broaden their knowledge base and to improve their teaching skills.
5 To further the scientific and technological knowledge of the U.S. public and to broaden public awareness that science, mathematics, engineering, and technology are no longer the exclusive province of professional practitioners in those fields, but are significant factors in all of our lives.

With these five goals as its foundation, EHR enables organizations and individuals to undertake innovative reforms aimed toward shaping a society in which all citizens are well prepared for the present and the future.

Visit the Directorate for Education and Human Resources' web site at www.ehr.nsf.gov.

About the National Science Foundation

Created in 1950 as an independent federal agency, the National Science Foundation (NSF) promotes and advances progress in science and engineering in the United States by investing in research and education in all fields of science, mathematics, and engineering.

NSF is committed to advancing exploration and inquiry in science and engineering research and education. Our focus is on the leading edges of all fields and disciplines of science and engineering and on the very promising areas between those fields and disciplines. NSF funds basic research and education seeking the following outcomes:

1 Discoveries at and across the frontier of science and engineering;
2 Connections between discoveries and their use in service to society;
3 A diverse, globally-oriented workforce of scientists and engineers;
4 Improved achievement in mathematics and science skills needed by all Americans; and
5 Relevant, timely information on the national and international science and engineering enterprise.

NSF is the only federal agency responsible for strengthening the overall health of U.S. science and engineering across all fields. Over the years, NSF has supported the work of leading educators and researchers; colleges, universities, and other institutions of higher learning; school systems; informal education centers and programs; and others involved in science and engineering in the United States. Such investments have resulted in historic contributions to U.S. national security and economic competitiveness, as well as in improvements in the lives of people everywhere.

NSF also is the primary federal agency dedicated to improving science and engineering education in the United States. To meet the challenges of the future—to sustain the nation's economic strength and the well-being of its citizens into the 21st century—the United States requires a strong cadre of scientific leaders, a diverse work force that is mathematically and technologically literate, and a public that fully understands basic concepts of science and engineering. These are the priorities as NSF works to achieve excellence in U.S. science, mathematics, engineering, and technology education at all levels, from pre-kindergarten through graduate school. NSF has supported notable contributions in developing curriculum and instructional materials, in professional development of teachers, and in improving the participation of women, minorities, and individuals with disabilities in science and engineering.

Visit NSF's web site at www.nsf.gov.

Inquiries for the Program for Women and Girls/Gender Equity

For web information about the PWG, go to **www.ehr.nsf.gov/EHR/HRD/ge/ge-index.htm**. Select "Program for Gender Equity." Current information is provided as well as Frequently Asked Questions, and a few selected external links.

For information on prior grants in the PWG, go to **www.nsf.gov/verity/srchawd.htm**. In the search dialog window, type 1544. You will see a list of projects funded by the PWG. Each project gives public information, including the Principal Investigator, amount granted, an abstract, contact information, and more.

E-mail inquiries should be addressed to hrdwomen@nsf.gov, or you may telephone the PWG staff at 703-306-1637. The mailing address is:

Program for Women and Girls/Gender Equity
Room 815
Division of Human Resource Development
Directorate for Education and Human Resources
National Science Foundation
4201 Wilson Boulevard
Arlington, VA 22230

How to Obtain NSF Publications

1. Visit www.nsf.gov and select "Documents."
2. More directly, go to
   www.nsf.gov/cgi.bin/pubsys/browser/odbrowse.pl
   - Select "Search by Document Referent Number'
   - Enter NSF 99-2 or another document number
   - Select whatever version in available: ASCII, HTML, or PDF
   - You may download and print
3. Send a Request for Publication "NSF 99-2" or such to pubs@nsf.gov, giving your name and mailing address.
4. Call 301-946-2722 and provide the publication number, and your name and address.

The PWG Listserv

Ruta Sevo	rsevo@nsf.gov
NSF Women & Girls	hrdwomen@nsf.gov
Krishna Athreya	ksathrey@iastate.edu
Suzanne Austin	saustin@mdcc.edu
Priscilla Auchincloss	psa@urhep.pas.rochester.edu
Carole Beal	cbeal@psych.umass.edu
Dorothy Bennett	dbennett@tristram.edc.org
Sarah Berenson	berenson@unity.ncsu.edu
Annette Berkovits	aberkovits@wcs.org
Fred Biasini	fbiasini@uab.edu
Black Diamond Girl Scout Council	bdgsc@newwave.net
Stephanie Blaisdell	blaisdell@asu.edu
Barbara Bogue	bbogue@engr.psu.edu
Melissa Borquist	melissaborgquist_at_cec002-1@cc.cranbrook.edu
Suzanne Brainard	brainard@u.washington.edu
Judy Brown	jbrown@miamisci.org
Susan Buckley-Holland	sbuckley@mdcc.edu
Carol Burger	cjburger@vt.edu
Pat Campbell	campbell@campbell-kibler.com
Carolyn Carter	carterc@ael.org
Susan Cavin	susan.cavin@nyu.edu
Marjorie A. Chan	machan@mines.utah.edu
Meera Chandrasekhar	physmc@showme.missouri.edu
Arlene Chasek	chasek@rci.rutgers.edu
Liesl Chatman	liesl@itsa.ucsf.edu
Pamela Clute	clute@citrus.ucr.edu
Sara Cohen	SACohen111@aol.com
Maureen Coelho	coelhom@cpep.org
Sue Cook	scook@hboi.edu
Sandy Cooper	scooper@math.wsu.edu
Mary Crowe	crowe@coastal.edu
Pamela Davis	pdavis@physics.ucla.edu
Sarah Delia	sadelia@juno.com
Chrys Demetry	cdemetry@wpi.edu
Cathrine Didon	didion@awis.org
Idella Edward	idella_e@bridginggap.org
Allan Fisher	alf@cs.cmu.edu
Pam Fisher	Pam_Fisher@together.cudenver.edu
Melanie Flatt	melanief@rapidnet.com, tsmart@rapidnet.com
Michael Froning	ASFAMS@aol.com
Merle Froschl	75507.1306@compuserve.com
Larry Genalo	genalo@iastate.edu
Yolanda George	ygeorge@aaas.org
Jean Girves	j-girves@uiuc.edu
Julie Glass	jglass@csuhayward.edu
Gail Gliner	glinerg@mscd.edu
Mary Gregory	gregory@hboi.edu
Charlena Grimes	char2@wsu.edu
Susan K. Grubbs	sgrubbs@zanesville.k12.oh.us
Jong-on Hahm	jhahm@nas.edu
Penny Hammrich	phammric@thunder.ocis.temple.edu
Kathy Hann	khann@csuhayward.edu
Sally Hare	sally@coastal.edu
Etta Heber	eheber@cosc.org
Shelly (Rachelle) Heller	sheller@seas.gwu.edu
Maria Hesse	hesse@cgc.maricopa.edu
D. Humphreys	dh@aacu.nw.dc.us
Naomi Hupert	nhupert@tristram.edc.org
Michelle Huston	mhuston@u.washington.edu
Jacqueline Hundt	jmhundt@wfu.edu
Institute for Women in Trades, Tech, & Science	iwitts@aol.com
Carolyn Jarvis	jarvis@is.nyu.edu
Martha James	mjames@nsf.gov
Janice Johnson	jjohnso@washeld.k12.az.us
Pat Jonas	tsmart@rapidnet.com
Wendy Katkin	wkatkin@notes.cc.sunysb.edu
Linda Kekelis	lskekelis@aol.com
Barbara Kerr	bkerr@asu.edu
Nanda Kirkpatrick	kpat@rice.edu
Sue Klein	sue_klein@ed.gov
Laura Koch	kochx001@tc.umn.edu
Sharon Kurpius	sharon.kurpius@asu.edu
Pat Kusimo	kusimop@ael.org
Pamela Lawhead	lawhead@cs.olemiss.edu
Maria Laxo	mlaxo@cosc.org
Becky Litherland	blitherl@mail.columbia.k12.mo.us
Marsha LoFaro	teggatz@theta.math.wsu.edu
Laurie Luckenbill	lauriel@asu.edu
Hollis MacLean	Hollis@awsesm.com
Sandra Madison	smadison@uwsp.edu
John R. Marks	jmarks@matc.tec.oh.us

The PWG Listserv

Catherine Mavriplis	mavripli@seas.gwu.edu
Maralee Mayberry	Mayberry@nevada.edu
James McLean	majmclean@alpha.ecsu.edu
Sue Metzler	smetzler@plugged-in.org
Judy Meuth	meuth@+wsu.edu
Sarah Meyland	smeyland@aol.com
Ioannis Miaoulis	imiaouli@tufts.edu
Janice Mokros	jan_mokros@terc.edu
Stacey Motland	smotland@wcs.org
Eileen Muirragui	emuirragui@air-dc.org
Caryn M. Musil	musil@aacu.nw.dc.us
Mary Ochoa	mso@rice.edu
Lise Orville	lorville@aol.com
Tony Phillips	tony@math.sunysb.edu
Dawn Pickard	pickard@oakland.edu
Pat Pitkin	papwml@rit.edu
Adele Pittendrigh	adlap@newton.math.montana.edu
Carmen Plank	ccplank@aol.com
Janet Raban	raban@mscd.edu
B Ramakrishna	bramakrishna@asu.edu
Pushda Ramakrishna	Ramakrishna@cgc.maricopa.edu
Brinton Ramsey	ramsey@aacu.nw.dc.us
Margaret Rees	rees@nevada.edu
Greer M. Richardson	educate@vm.temple.edu
Edward Rickert	erickert@uab.edu
Frank Romero	fromero@citrus.ucr.edu
Nancy Ross	nross@pogo.edc.org
Sue Rosser	srosser@wst.ufl.edu
Mary Anderson-Rowland	mary.anderson@asu.edu
Fred Rudolph	fbr@rice.edu
Jo Sanders	jsanders@wri-edu.org
Mary Sandy	mls@penngrad.pgtt.odu.edu
Rozanne Severance	sever029@gold.tc.umn.edu
Laura Severin	lrs@unity.ncsu.edu
Ann-Marie Schmoltner	aschmolt@cais.com
Pat Schulte	yfsgrant@rapidnet.com
Charol Shakeshaft	CharolSS@aol.com
Larry Sher	lawsher@yahoo.com
Susan Shugerman	shuger@admin.ogi.edu
Ann Sigford	asigford@css.edu
Marilynn Sikes	marilynns@discoveryplace.org
Gayle Slaughter	gayles@bcm.tmc.edu
H. David Snyder	hdsnyder@gallux.gallaudet.edu
Mark Sonntag	sonntamr@wfu.edu
Charlene Sorensen	Charlene.Sorensen@gallaudet.edu
Richard Steere	tsmart@rapidnet.com
Nancy Stubbs	nstubbs@suhsd.k12.ca.us
Shelley Stults	sstults@optonline.net
Barbara Sprung	75507.1306@compuserve.com
Lindsay Tartre	ltartre@ui.urban.org
Karen Thomson	kthomson@wcs.org
Carolyn Thorsen	carolyn.thorsen@ceismc.gatech.edu
Richard Tobin	rtobin@air-dc.org
Dyanne Tracy	dtracy@oakland.edu
L. Tubbs	letsch@rit.edu
Dianne Tucker	dtucker@uab.edu
Marion Usselman	marion.usselman@ceismc.gatech.edu
Sara Wadia-Fascetti	swf@neu.edu
Ellen Wahl	Ewahl@edc.org
Mary White	scholars@www.eas.asu.edu
Gail Whitney	gwhitney@admin.ogi.edu
Kim Wilcox	wilco001@maroon.tc.umn.edu
Dawn Wilkins	dwilkins@cs.olemiss.edu
Patricia Wilkinson	pbwilk@aol.com
Pat Wilson	Pwilson@asu.edu
Paula N. Wilson	pnwilson@mines.utah.edu
Peter Wong	pwong@tufts.edu
Mary Wyer	mbwyer@unity.ncsu.edu
Karen Wynn	kxw8@psu.edu
Sara Young	SLYoung@montana.edu
Andrea Zardetto-Smith	amzarsmi@creighton.edu

Lists:

tsmart@rapidnet.com (Melanie Flatt, Director; Richard Steere; Pat Jonas; Dixie Shreves)

wise@psu.edu
nwcrow@u.washington.edu (Angela Ginorio; Michelle Huston)

Featured Resources: Women and Minorities in Science and Engineering

Prepared by Stephanie Bianchi, NSF Librarian

Society for Advancement of Chicanos and Native Americans in Science	www.sacnas.org/
American Indian Science and Engineering Society	bioc02.uthscsa.edu/aisesnet.html
Advocates for Women in Science, Engineering, and Mathematics	www.awsem.com/
Gender, Science and Technology: International Policy Issues	www.ifias.ca/gsd/gsdinfo.html
Caltech Links Page to Women in Science	www.cco.caltech.edu:80/~wcenter/groups.html
Distinguished Women of Past and Present	www.netsrq.com/~dbois/
Women & Minorities in Science & Engineering from SciCentral	www.scicentral.com/W-02womi.html
Maintaining Diversity in Science (a Science/AAAS feature)	sci.aaas.org/nextwave/print/minorities/
International Gender, Science and Technology Information Map (GST Map)	www.Wigsat.org/GSTPMap.html
CRA Committee on the Status of Women in Computer Science and Engineering	cra.org/Activities/craw/
Encouraging Women in Science and Engineering (National Research Council Directory)	www2.nas.edu/cwse/Organizations
Women and Minorities in Science and Engineering (MIT)	www.ai.mit.edu/people/ellens/Gender/wom_and_min.html
Women in Science, Math, and Engineering PhDs.org Links Page	www.phds.org/index.cfm?theTopicID=63
4000 Years of Women in Science	crux.astr.ua.edu/4000WS/4000WS.html
Women in Science, selected biographies from UCSD	www.sdsc.edu/Publications/ScienceWomen
Women in Science	library.advanced.org/20117
Women in Science from Encarta	encarta.msn.com/schoolhouse/womensci/womensci.asp
Archives of Women in Science and Engineering	www.lib.iastate.edu/spcl/wise/wise.html
Climbing the Ladder: An Update on the Status of Doctoral Women Scientists and Engineers. (NAS Report)	www.nap.edu/readingroom/records/0309033411.html
Women Scientists and Engineers Employed in Industry: Why So Few? (NAS Report)	www.nap.edu/readingroom/records/0309049944.html
Minority Colleges and Universities	web.fie.com/web/mol/text/minlist.htm
A Woman's Career in Science	www.advancingwomen.com/grrls2.phtml
AWIS: Association for Women in Science	www.awis.org/
Advocates for Women in Science, Engineering, and Mathematics	www.awsem.com/
Sex Differences in Research Productivity Revisited	www.psc.lsa.umich.edu/~yuxie/soc310/slide21.htm

Featured Resources: Women and Minorities in Science and Engineering

Specific Disciplines

Astronomy

Women in Astronomy	www.stsci.edu/stsci/service/cswa/women/

Artificial Intelligence

Women in Artificial Intelligence	www.ai.mit.edu/people/ellens/Gender/ieee/ieee.htm

Computer Sciences

Women in Computer Science	www.ai.mit.edu/people/ellens/gender.html
The Ada Project: Internet resources for women in computer science	www.cs.yale.edu/HTML/YALE/CS/HyPlans/tap/tap.html

Engineering

Society of Hispanic Professional Engineers	www.shpe.org/
IEEE Women-In-Engineering Home Page	www.ieee.org/ieee_women_in_eng/women.html
The Society of Women Engineers	www.swe.org/
Women in the Engineering Industry	www.webfoot.com/advice/women.in.eng.html

Mathematics

Women Mathematicians	www.scottlan.edu/lriddle/women/women.htm
Women in Mathematics	www.teleplex.bsu.edu/home/nshadle/web/wmmain.htm
Women in Math Project	darkwing.uoregon.edu/~wmnmath/

Physics

Women in Physics	www.physics.ucla.edu/~cwp/
Contributions of 20th Century Women to Physics	www.physics.ucla.edu3/~cwp/

Featured Resources: Web Directories and Sites for Science and Science Education

Prepared by Stephanie Bianchi, NSF Librarian

Web Directories for Science Resource Studies

www.tc.cornell.edu/Edu/MathSciGateway/
Cornell Math and Science Gateway for Grades 9-12

150.216.8.1/roadmap/scimath.htm
K-12 Educator's Roadmap to the Internet

medinfo.wustl.edu/~ysp/
Young Scientists Program (Washington Univ. School of Medicine)

home.unicom.net/~warnerr/
Mr. Warner's Cool Science

www.hudmark.com/schoolnet/science.html
SchoolNet Science Links

www.li.net/~ndonohue/sci.html
Science Internet Resources

www-sci.lib.uci.edu/SEP/SEP.html
Frank Potter's Science Gems

www-hpcc.astro.washington.edu/scied/science.html
SciEd: Science and Mathematics Education Resources

Web Directories with Science Categories

www.mcli.dist.maricopa.edu/tl/
Teaching and Learning on the World Wide Web—Also contains a teaching resource web search engine.

www.kn.pacbell.com/wired/bluewebn/categories.html
Blue Web'N

Sites for Cool Science Links

sln.fi.edu/tfi/jump.html
Online Exhibits Hotlist

csa.clpgh.org/Links/index.html
Carnegie Science Academies Cool Links

www.keysites.com/
New Scientist Planet Science: Key sites—Hot Internet Issues and Cool Sites

Science for Girls

www.beloit.edu/~gwsci/gws.html
The Girls and Women in Science Project

library.advanced.org/20117/
Women in Science—Directory, mentoring, links, interviews, and more.

www.hopper.com/hopper/scigirl.html
Science is for Girls Internet Scavenger Hunt

www.backyard.org/
The Backyard Project for High School Girls Exploring a Career in Computer Science

weber.u.washington.edu/~rural/
Rural Girls in Science

www.sig.net/~scicomp/twist/kidFun.html
Fun Educational Stuff for Girls

www.bess.net/science_and_nature/
Bess' Science & Nature

www.academic.org/
Expect the Best from a Girl

www.girltech.com/
GirlTech

genderequity.vsgc.odu.edu/
Virginia Space Grant Consortium Gender Equity Web page

Featured Resources: Web Directories and Sites for Science and Science Education

Teaching Resources: Biology

lenti.med.umn.edu/~mwd/courses.html
Virtual Courses in Biology

www-hpcc.astro.washington.edu/scied/biology.html
Biology Education Resources

esg-www.mit.edu:8001/esgbio/
The MIT Biology Hypertextbook—introductory resource including information on chemistry, biochemistry, genetics, cell and molecular biology, and immunology.

www.biology.arizona.edu/
The Biology Project—University of Arizona online interactive resource for learning biology.

arnica.csustan.edu/
CSUBIOWEB—consolidates existing WWW biological science teaching and research resources and creates and distributes original multimedia resources for the teaching of biology.

www-sci.lib.uci.edu/SEP/life.html Frank Potter's Science Gems-Life Science, K-12

www.tc.cornell.edu/Edu/MathSciGateway/biology.html
Cornell Theory Center Math and Science GatewayBiology,Grades 9-12

www.bio.brandeis.edu/biomath/top.html
Mathematics and Biology—The purpose of these pages is to press our noses against some of the windows that look upon biological systems, and to do it in as interactive and stimulating a way as possible.

biodidac.bio.uottawa.ca/
Biological Images for Educational Use

www.floridaplants.com/Scott/
Scott's Botanical Link of the Day—This service is organized by Dr. Scott Russell through the Department of Botany and Microbiology of the University of Oklahoma, US. The purpose is to compile useful botany education resources for the advanced high school (AP-biology) and college level.

nlu.nl.edu/bthu/nlu/eight/es/Homepage.html
Earth Sciences Emporium—A variety of interesting sites for the earth science educator and enthusiast.

www.tc.cornell.edu/Edu/MathSciGateway/environment.html
Cornell Theory Center Math and Science Gateway Grades 9-12: Earth and Environmental Science

www-sci.lib.uci.edu/SEP/earth.html
Frank Potter's Science Gems-Earth Sciences

www.tc.cornell.edu/Edu/MathSciGateway/meteorology.html
Meteorology

www.hic.net/hicpersonal/j/jbutler/update/cit.htm
Geology and the Environment—An Internet-Based Resource Guide. This Internet-based resource guide contains all the links cited in the print version of the same name by Pipkin and Trent. Contains text, graphics, and in some cases, slide shows for over 100 resources in twenty-four categories, including environmental geology, water, and remote sensing.

FEATURED RESOURCES: WEB DIRECTORIES AND SITES FOR SCIENCE AND SCIENCE EDUCATION

PREPARED BY STEPHANIE BIANCHI, NSF LIBRARIAN

www.mtnswest.com/ores/geo-ed/index.htm
ORES Earth Science Education Links

www.mtnswest.com/ores/geo-ed/sites.htm
Links to Earth Science Education Directories

www.uh.edu/~jbutler/anon/anonfield.html
The Virtual Geosciences Professor

www.kn.pacbell.com/cgi-bin/listApps.pl?Earth&Science
Blue WebN Earth Sciences Sites. Rated hot sites.

TEACHING RESOURCES: SOCIAL, BEHAVIORAL SCIENCES AND ECONOMICS

www.math.uah.edu/~stat/
Virtual Laboratories in Probability and Statistics Interactive, web-based modules for students and teachers of probability and statistics. Most pages have one or more Java applets designed so that the student can run random experiments or generate data quickly and easily. The text component of a page is a discussion of the underlying mathematical theory, together with an set of exercises that are faithful to the rules of three. Indeed, most of the text consists of (hopefully bite-sized) exercises that guide the student through the development of the mathematical theory and the development of probabilistic intuition.

psych.hanover.edu/APS/
Teaching Resources Links from the APA in the following categories: General Material; Behavioral Biological; Psychology; Clinical Psychology; Cognitive Psychology; Developmental Psychology; Educational Psychology; Evolutionary Psychology; Forensic Psychology; Health Psychology; History and Systems; Research Methods; Sensation and Perception; Social Psychology; Statistics;

WORLD LECTURE HALL SERIES, BY DISCIPLINE:

The World Lecture Hall (WLH) contains links to pages created by faculty worldwide who are using the web to deliver class materials. For example, you will find course syllabi, assignments, lecture notes, exams, class calendars, multimedia textbooks, etc.

www.utexas.edu/world/lecture/
World Lecture Hall

www.utexas.edu/world/lecture/agriculture/
Agriculture

www.utexas.edu/world/lecture/ant/
Anthropology and Archaeology

www.utexas.edu/world/lecture/bch/
Biochemistry

www.utexas.edu/world/lecture/bio/
Biology and Botany

www.utexas.edu/world/lecture/biotech/
Biotechnology

www.utexas.edu/world/lecture/earthsci/
Earth Science

Featured Resources: Web Directories and Sites for Science and Science Education

www.utexas.edu/world/lecture/eco/
Economics

www.utexas.edu/world/lecture/envsci/
Environmental Science

www.utexas.edu/world/lecture/linguistics/
Linguistics

www.utexas.edu/world/lecture/mic/
Microbiology

www.utexas.edu/world/lecture/psy/
Psychology

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