

SCIENCE TECHNOLOGY BIBLIOGRAPHY:

TABLE OF CONTENTS:

- I. INTERNET RESEARCH STRATEGIES FOR SCIENCE
- II.
- III. SEARCH ENGINES
- IV.
- V. FREE DATABASES
- VI.
- IV. HOW TO KEEP UP WITH NEW DEVELOPMENTS IN SCIENCE AND TECHNOLOGY
- V: FREE ONLINE JOURNALS
- VI: FREE VIDEOS
- VII. DISTANCE EDUCATION RESOURCES (MIT, UMASS BOSTON, UTAH STATE, U CAL IRVINE, etc.)
- VIII: RESOURCES BY AREA OF SPECIALTY
- IX. ACCESS TO THESES AND DISSERTATION RESEARCH
- X: OTHER RESOURCES

I. INTERNET RESEARCH STRATEGIES:

+ SEARCHING FOR SCIENCE! <http://searchingforscience.pbwiki.com/>
How to Start the Research Process

+SCIENCE RESEARCH AND TECHNOLOGY BIBLIOGRAPHIES FROM THE LIBRARY OF CONGRESS: <http://www.loc.gov/rr/scitech/SciRefGuides/>

+SCIENCEWORLD <http://scienceworld.wolfram.com/>
Comprehensive Free online encyclopedias of astronomy, math, physics, scientific biographies, and scientific books, with many equations and formulas.

II. SEARCH ENGINES:

+10 SCIENCE SEARCH ENGINES:
<http://hwlibrary.wordpress.com/2008/09/22/science-search-engines/>

+SCIRUS: <http://www.scirus.com>
One of the first "science focused" specialty search engines on the web. Scirus is owned and operated by Elsevier and much of the Elsevier content is in the database via Science Direct

+ SCITOPIA <http://scitopia.org/scitopia> is now available for beta testing. 15 scholarly organizations are supporting it.

+THE GLOBAL SCIENCE GATEWAY <http://worldwidescience.org/>

is also new online resource, functioning as a gateway to 15 national Science portals. This is a partnership between US DOE, The British Library, and other countries. The U.S. Department of Energy (DOE) and the British Library, along with other participating countries, have made available an online global gateway to science information from 15 national portals. The gateway, WorldWideScience.org, gives citizens, researchers and anyone interested in science the capability to search science portals not easily accessible through popular search technology such as that deployed by Google, Yahoo! and many other commercial search engines.

+ **SCIENCE.GOV** www.Science.gov is a gateway to over 50 million pages of **authoritative selected science information** provided by U.S. government agencies, including research and development results. The Library of Congress has just joined the **Science.gov alliance**.

+ **OAISTER** (<http://www.oaister.org>) While not all of the content in this union catalog and search engine is "science related" it is more than worthy of scholarly attention. At last count, the OAISTER (pronounced "Oyster") database contained over 12 million records from close to 900 contributors. OAISTER harvests data from numerous sources around the globe.

+ **SCIENCE VIDEOS SEARCH ENGINE** <http://sciencehack.com/>
A wonderfully useful tool. It's difficult to locate resources across science's boundary lines with most search engines because they may be tagged solely by the specific discipline or narrow subject of the resource. In addition, every video included has been "screened by a scientist to verify its accuracy and quality." There aren't a lot of videos here yet, but this ongoing project aims to index every science video on the internet.

III. FREE DATABASES:

+ **THE ESCHOLARSHIP REPOSITORY AND THE CALIFORNIA DIGITAL LIBRARY**
<http://repositories.cdlib.org/escholarship> and <http://escholarship.cdlib.org>
Many new scientific and research studies are published monthly.

+ **BIOMEDCENTRAL:** <http://www.biomedcentral.com/browse/bysubject>
The research articles in all journals published by BioMed Central are 'Open Access'. They are available online without charge. A number of journals require an institutional or a personal subscription to view other content, such as reviews or reports. Free trial subscriptions to these journals are available.
Access to the content is free. However, one does need to register (free) to search.
A list of journals indexed in this database can be found here:
<http://www.biomedcentral.com/browse/journals/>

+ **THE HIGHWIRE PRESS ARCHIVE** is nearing 1.7 million free, full text articles. They provide a list of titles and related info. <http://highwire.stanford.edu/lists/freeart.dtl>

+ **DOAJ: DIRECTORY OF OPEN ACCESS JOURNALS** (<http://www.doaj.org>)
Over 3000 journals are covered in this free database, many of them scientific, engineering or technology journals. One can browse by journal or search by keyword for articles written on a particular concept.

+ **NATIONAL SCIENCE DIGITAL LIBRARY** <http://nsdl.org/>
An essential resource for science educators and for anyone interested in science.

+ **OPEN SCIENCE DIRECTORY** <http://www.opensciencedirectory.org/>
A large collection of e-journals is now available for researchers in developing countries. The Open Science Directory, with the support of cooperating partners, is creating a unique access point to all these journals.

+ **PUBLIC LIBRARY OF SCIENCE PLoS** is a nonprofit organization of scientists and physicians committed to making the world's scientific and medical literature a freely available public resource." Includes access to E-Journals in all fields and to the latest research reports.
<http://www.plos.org>

+PUBLIC LIBRARY OF SCIENCE: PUBLISHED ARTICLES: <http://www.plosone.org/home.action>

+ PUBMED: A FREE DIGITAL ARCHIVE OF LIFE SCIENCES AND BIOMEDICAL JOURNALS:
<http://www.pubmedcentral.nih.gov/>

From the U.S. National Institutes of Health. An Outstanding Resource.

+ PUBMEDCENTRAL <http://www.pubmedcentral.nih.gov/>

This is a free digital archive of biomedical and life science journals with new content **being added all of the time**.
A **complete title list** is available

+SciFeeds: <http://www.scifeeds.com/> SciFeeds delivers to you the most recent life science literature as it is published direct from RSS feeds.

+SCIENCE RESEARCH.COM "Your One Stop Source for Scientific Research"

<http://www.scienceresearch.com/search/>

A free, publicly available web portal allowing access to numerous scientific journals and public science databases. It allows students, teachers, professors, researchers, and the general public to access pertinent science information quickly and easily.

+ U.S. NATIONAL LIBRARY OF MEDICINE – MEDLINE PLUS

<http://www.nlm.nih.gov/medlineplus/>

Medline Plus combines access to medical reference tools (encyclopedia, dictionary, directories, etc.) with pharmaceutical information, the latest research findings and links to resources on a wide range of health topics. Includes Videos of Surgery Procedures.

WORLDWIDESCIENCE [MACROMEDIA FLASH PLAYER]

<http://worldwidescience.org/>

As its name implies, the WorldWideScience site is a global science gateway that is meant to help connect a worldwide audience to various national and international scientific databases. The site was developed and is maintained by the Office of Science and Technical Information (OSTI,) with the U.S. Department of Energy. Visitors to the site's homepage can click on an interactive map of the world's countries to locate participants and their websites. After clicking on a country, a list of available resources will appear in a box immediately to the right of the world map. Dozens of countries are currently represented, and visitors will find Colombia's "Scientific Electronic Library Online", India's "Indian Academy of Science", and Cameroon's "African Journals Online". The site is rounded out by an advanced search option and contact information.

+DOE EXPANDS GLOBAL SCIENCE PORTAL. Government Computer News, June 12, 2008.

http://www.gcn.com/online/vol1_no1/46450-1.html

The article refers to <http://worldwidescience.org/> whose governance structure is provided by the Worldwide Science Alliance <http://worldwidescience.org/alliance.html>

+ OTHER FREE ONLINE RESOURCES:

<http://eprints.rclis.org/archive/00006597/01/OADeveloping.pdf>

+ OTHER OPEN ACCESS REPOSITORIES:

http://www.ifla.org/IV/ifla72/papers/151-Oliver_Swain-en.pdf

IV. HOW TO KEEP UP WITH NEW DEVELOPMENTS IN SCIENCE AND TECHNOLOGY

+CARNEGIE INSTITUTION FOR SCIENCE [MACROMEDIA FLASH PLAYER, PDF]

<http://www.ciw.edu/>

Over the past century, the Carnegie Institution has continued to support a wide range of scientific endeavors, and researchers such as Edwin Hubble, Barbara McClintock, and Andrew Fire have been associated with this august organization. On their first-rate site, visitors can browse through sections that profile their various departments (which include embryology and global ecology), read their latest reports, and view an interactive calendar of events sponsored by the Institute. Visitors with a scholarly bent will want to browse on over to the "Publications/Archives" section. The online offerings span the past five decades, and visitors can view everything from "Ceramics for the Archaeologist" to "How Galaxies Rotate".

+SciBYTES: WHAT'S NEW IN RESEARCH: <http://sciencewatch.com/dr/sci/>

+ALLTOP SCIENCE: <http://science.alltop.com/>
Science news from a variety of sources. Essentially, an aggregation of RSS feeds.

+ LearningScience <http://www.learningscience.org/index.htm>
Using the National Science Education Standards as their benchmark, the Learning Science organization has developed this site to bring hundreds of science-based learning tools to the general public. The Learning Science organization is a collaborative project created by individuals at the College of Education at Temple University, George Mehler, and teachers at the Central Bucks School District in Pennsylvania. Visitors to the site will notice that the materials are divided into seven primary sections, including "Physical Science", "Life Science", and "Science & Society". Within each section, visitors can browse through the teaching resources, which include interactive web-based lessons, pedagogical tools, and links to external resources created by organizations such as PBS and Rice University. One section is worth singling out for special attention: "Tools to Do Science". Here visitors will find printable rulers, a printable protractor, a stop watch, and printable graph paper. Finally, visitors can search the entire site via a convenient search engine and also send along their own comments.

+ LOW DOWN ON SCIENCE: <http://www.lohdown.org/> (From National Public Radio)

+ SciFeeds: <http://www.scifeeds.com/> SciFeeds delivers to you the most recent life science literature as it is published direct from RSS feeds.

+ SCIENCE DEVELOPMENT: latest developments in Science: www.scidev.net
Can also migrate to specific regions of the world to see what is going on scientifically in a variety of countries.

+ SCIENCE UPDATE: <http://www.scienceupdate.com/index.php>
(From the American Association for the Advancement of Science)

+ SCIENCEWATCH.COM <http://www.sciencewatch.com/>
A free, open web resource for new trends and research in science

+SCIENCE AT NASA: Science@Nasa <http://science.hq.nasa.gov/>
NASA's science mission directorate website with numerous science-related articles, images, and other features.

+SCIENCE IN FOCUS [MACROMEDIA FLASH PLAYER]
<http://www.sumanasinc.com/scienceinfocus/scienceinfocus.html>
Sumanas Inc.'s website offers a wide range of material, such as animations

of scientific processes, for a range of scientific disciplines, but here visitors will find their "Science in Focus" section of the website. Some of the topics that are brought to life with animating technology are antibiotic resistance, stem cell research, malaria, anthrax, gene therapy, and peptic ulcers. Click on "Go to Presentation" next to your topic of choice, and you'll be taken to a page that has the animation ready to play, but also has several links to outside sources of information. When you're ready to view the animation, click on the link "Click to view animation" and you'll be shown a simple player that will allow you to listen to the narration while viewing the animation, or read the text while viewing the animation. Visitors shouldn't miss the Malaria Parasite animation for an explanation of how humans, mosquitoes, and the Plasmodium parasite all have to be involved to successfully pass on malaria.

NEW! +AMERICAN MUSEUM OF NATURAL HISTORY: SCIENCE BULLETINS [MACROMEDIA FLASH PLAYER] <http://www.amnh.org/sciencebulletins/>

Going to the American Museum of Natural History is a pretty wonderful experience, but if you can't make it to the Upper West Side of New York on a regular basis, you can still keep in touch via their Science Bulletins. These online video features bring curious visitors the latest developments in the fields of astrophysics, human biology, biodiversity, and evolution.

+ SCIRUS TOPIC PAGES at: (Latest Scientific Discoveries explained in Detail)
<http://topics.scirus.com>

LIST OF ALL TOPIC PAGE TITLES AT: <http://topics.scirus.com/topicindex.jsp>

+ SCIENCE NOW: THE LATEST NEWS HEADLINES from the Scientific World
<http://sciencenow.sciencemag.org/>

Keeping tabs on important developments in the world of science can be rather exhausting, especially considering the number of websites dedicated to various fields of scientific endeavor. One very helpful way to do this is through the ScienceNOW site, which features daily news items from Science magazine. Visitors can access all news items from the previous four weeks at no charge, and they may also wish to sign up to receive email alerts and RSS feeds.

+MIND MATTERS - SCIENTIFIC AMERICAN COMMUNITY
<http://science-community.sciam.com/blog/Mind-Matters/300000977>

An intriguing blog where "top researchers in neuroscience, psychology and psychiatry explain and discuss their fields." Among the topics: "Your Brain's Spam Filter," "How Stereotypes Affect Performance," and many more intriguing topics.

+ THE WHY FILES: SCIENCE BEHIND THE NEWS <HTTP://WHYFILES.ORG/>

The mission of The Why Files is to explore the science, math and technology behind the news of the day, and to present those topics in a clear, accessible and accurate manner. We are based at the University of Wisconsin-Madison, but The Why Files covers science at all institutions that engage in scientific exploration and discovery.

+ POLICY RESEARCH AND ACCESS TO RESEARCH STUDIES IN SCIENCE AND TECHNOLOGY:

PolicyArchive (<https://www.policyarchive.org/>) is a joint project of the Center for Governmental Studies (CGS), a nonprofit organization in California, the Indiana University Purdue University Indianapolis Library and Communications Consortium Media Center in Washington, DC.

From the July, 2008 Issue of ResourcesHelf: <http://www.ResourcesHelf.com>:

"Problem: American philanthropic foundations spend over \$1.5billion a year on research. Spread out across the nation among diverse libraries, institutions, databases, and websites, this valuable research can be difficult or impossible to identify and obtain once it has been published. Research organizations have no central place to distribute or archive their content, and search engines cannot easily locate much policy research. Research is not optimized to appear at the top of search engine results. Existing policy websites are focused on single issues or available only upon payment of substantial fees.

Solution: PolicyArchive simplifies this complex research landscape by providing a universal, easy-to-use, free, and open digital archive of foundation-funded and other public policy research. The PolicyArchive solution provides public interest organizations a low-cost electronic system for distributing, publicizing, and

archiving their research. It allows research users, policy makers, the media, and the public to quickly access the depth and breadth of research in various subject matters. It also provides a direct line of communication between research providers and end-users, thus increasing public awareness of an organization's work and adding significant value to their research investment. Ultimately, PolicyArchive will indefinitely preserve the life of public policy research, substantially increase its impact, and provide society at large with long-term access to the benefits of that important research. PolicyArchive uses a dropdown menu for browsing by topic, author, funder, or publisher. One can also search via the keyword search box next to the dropdown menu. An advanced search form offers menu-driven field searching, Boolean options, and the ability to limit your search to a particular topic or type of publication.

Topic "quick links" are available at the bottom of the home page:

- * Agriculture, forestry and fishing
- * Banking and finance
- * Business
- * Culture and religion
- * Economics
- * Education
- * Energy
- * Environment
- * Government
- * Health
- * Human rights
- * International relations
- * Justice
- * Labor
- * Law and ethics
- * Manufacturing and industry
- * Media, telecommunications, and information
- * Military and defense
- * Politics
- * Population and demographics
- * Science and technology
- * Social conditions
- * Trade
- * Transportation

The archive currently contains more than 15,000 documents; organizations are encouraged to register and upload their research to the site. More than 250 diverse institutions are already doing so, from Action for Children to Women's Voices for the Earth. The entire political spectrum is represented as well - from the liberal Center for American Progress, to the libertarian Cato Institute, to the conservative Heritage Foundation. About halfway down the home page, on the righthand side, you can see the latest additions to the archive. You can subscribe to an e-mail newsletter if you're interested in keeping up with what's new."

+ THE WHY FILES: SCIENCE BEHIND THE NEWS <http://whyfiles.org/>

The mission of The Why Files is to explore the science, math and technology behind the news of the day, and to present those topics in a clear, accessible and accurate manner. We are based at the University of Wisconsin-Madison, but The Why Files covers science at all institutions that engage in scientific exploration and discovery.

V. FREE ONLINE JOURNALS:

+ LIST OF SCIENTIFIC JOURNALS (FROM WIKIPEDIA ENTRY):

http://en.wikipedia.org/wiki/List_of_scientific_journals

+ BIOMEDCENTRAL: <http://www.biomedcentral.com/browse/bysubject>

The research articles in all journals published by BioMed Central are 'Open Access'. They

are available online without charge. A number of journals require an institutional or a personal subscription to view other content, such as reviews or reports. Free trial subscriptions to these journals are available.

+ COLLECTIONS OF FREE MEDICAL JOURNALS: <http://freemedicaljournals.com>
Provides free access to over 1,450 Medical Journals.

+ OPEN SCIENCE DIRECTORY: ACCESS TO ONLINE JOURNALS VIA OPEN SCIENCE DIRECTORY: <http://atoz.ebsco.com/titles.asp?id=8623&sid=178939432&TabID=2>

<http://www.opensciencedirectory.net/>

Readers may have heard of the "digital divide", but what about the scientific "digital divide"? The Open Science Directory is attempting to bridge this gap by providing access to a wide range of journals to researchers in both developing and developed countries. Working with the support of EBSCO Information Services and Hasselt University Library, the Open Science Directory provides access to approximately 13000 scientific journals. The Directory includes collections of open access journals and also draws on a variety of other resources, including BioMed Central and PubMed Central. By clicking on the "Open Science Directory" tab, visitors will be redirected to the site's sophisticated search engine.

+ WEB BASED RESOURCES (Journals plus Web Sites): <http://ejw.i8.com/>

+ SCIENCE DAILY <http://www.sciencedaily.com/>
ScienceDaily is one of the Internet's leading online magazines and Web portals devoted to science, technology, and medicine. Your source for the latest research news.

+ SCIENCE MAG: <http://www.sciencemag.org/> The latest news and discoveries in all scientific fields!

VI. FREE VIDEOS:

+ BLINKX: SEARCH FOR EDUCATIONAL VIDEOS USING ONE OF THE BEST SEARCH ENGINES JUST FOR VIDEOS: <http://blinkx.com/>

Blinkx is the world's largest and most advanced video search engine. Fed by automatic spiders that crawl the web for audio video content and having content partnerships with over 200 leading media companies, blinkx uses advanced content analysis to better retrieve educational content.

+FREE SCIENCE AND VIDEO LECTURES ONLINE <http://freescienceonline.blogspot.com/>
Searchable blog-based archive offers lectures and slides for introductory science and math courses, and a wide variety of more specialized topics.

+ FREE SCIENCE LECTURES ONLINE: <http://www.freesciencelectures.com/>

+ Science Videos Search Engine <http://sciencehack.com/>
A wonderfully useful tool. It's difficult to locate resources across science's boundary lines with most search engines because they may be tagged solely by the specific discipline or narrow subject of the resource. In addition, every video included has been "screened by a scientist to verify its accuracy and quality." There aren't a lot of videos here yet, but this ongoing project aims to index every science video on the internet.

+ SCITALKS VIDEOS: SMART PEOPLE ON VIDEO DISCUSS SCIENTIFIC TOPICS:
<http://scitalks.com/index.php>

+ VIDEO LECTURES ON ANY TOPIC <http://videolectures.net>

+ SCIENCE FACTS: VIDEOS ON DEMAND FROM THE ANNENBERG FOUNDATION: (access to these videos is free, but you do need to register first, registration is free however)

<http://www.learner.org> With "Science in Focus: Shedding Light on Science" Workshop 7, "Sun and Seasons" <<http://www.learner.org/redirect/january/light54.html>>, elementary teachers will learn more about Earth's movements in relation to the sun and their impact on climate and the seasons. > "A Private Universe" <<http://www.learner.org/redirect/january/apu55.html>> considers why even the brightest students -- Harvard and MIT graduates -- often lack an understanding of basic science facts, including what causes the seasons.

Be sure to visit the related Teacher's Lab <<http://www.learner.org/redirect/january/lab56.html>> featuring a survey about common astronomy misconceptions and other related activities.

+ "Planet Earth" <http://www.learner.org/redirect/january/pe57.html> Program 3, "The Climate Puzzle," looks at the relationship between Earth's cyclical movements and periodic climate change.

+ Explore the physics of Earth's rotation and its (slightly) elliptical orbit, and learn the relevant formulas with "The Mechanical Universe...and Beyond" <<http://www.learner.org/redirect/january/mech58.html>>.

+ "The Habitable Planet: A Systems Approach to Environmental Science" (high school/college) <http://www.learner.org/redirect/january/hab40.html>

+ "Learning Science through Inquiry" (K-8) <http://www.learner.org/redirect/january/scinq41.html>

+ "The Mechanical Universe...and Beyond" (college/high school) <http://www.learner.org/redirect/january/mech42.html>

+ "Science in Focus: Energy" (K-6) <http://www.learner.org/redirect/january/ener43.html>

_ "Science in Focus: Shedding Light on Science" (K-5) <http://www.learner.org/redirect/january/light44.html>

+ "The World of Chemistry" (college/high school) <http://www.learner.org/redirect/january/chem45.html>

Other Free Videos from Annenberg Media (<http://www.learner.org>) include these:

+ Instructional video series on **chemistry**
<<http://www.learner.org/resources/series61.html>> ,

+ **earth science**
<<http://www.learner.org/resources/series78.html>>
<<http://www.learner.org/resources/series49.html>> ,

+ **physics**
<<http://www.learner.org/resources/series42.html>> ,

+ **biology**
<<http://www.learner.org/courses/biology/>> ,

+ **microbiology**
<<http://www.learner.org/resources/series121.html>> ,

+ **neuroscience**
<<http://www.learner.org/resources/series142.html>> ,

+ **and environmental science** <<http://www.learner.org/courses/envsci/>> ,

plus series specifically designed for teacher professional development

<http://www.learner.org/channel/chnnl_workshops.html> .

Also see Annenberg Media (www.learner.org) Science interactives

<<http://www.learner.org/interactives/>> for unique learning experiences.

VII. DISTANCE EDUCATION RESOURCES:

+CHEMISTRY COURSES AND LABS: <http://usefulchem.wikispaces.com/>

+ OPEN EDUCATIONAL COMMONS: FREE COURSES IN SCIENCE AND TECHNOLOGY:

http://www.oercommons.org/browse/general_subject/science-and-technology

VIRTUAL COURSEWARE FOR SCIENCE EDUCATION:

+ <http://nemo.sciencecourseware.org/eecindex.php>

The Virtual Courseware Project produces interactive, online simulations for the life science laboratory or for earth science field studies. The activities are designed to enhance an existing curriculum and include online assessments. They can be used by students ranging from middle school, high school, or college classrooms.

+ Also check out the OCW CONSORTIUM at <http://ocwconsortium.org> (CLICK ON THE **MEMBERS** TAB) for a listing of other universities offering free lecture notes, syllabi, student projects, and audio and video of classes. Most prominent among these are MIT (<http://ocw.mit.edu>), Yale (<http://open.yale.edu/courses/>) and Videos of UC Berkeley classes, many of which are the Sciences and technology areas (<http://youtube.com/ucberkeley>)

+LABS AND COURSES FROM AROUND THE WORLD:

http://www.openwetware.org/wiki/Main_Page

+ DISTANCE EDUCATION RESOURCES FROM MIT [MASSACHUSETTS INSTITUTE OF TECHNOLOGY]: <http://ocw.mit.edu> Includes an extensive Engineering Curriculum.

+ OTHER UNIVERSITIES OFFERING DISTANCE EDUCATION COURSES:

<http://ocwconsortium.org> (Click on **MEMBERS**)

VIII.RESOURCES BY AREA OF SPECIALTY:

+ ASTRONOMY RESEARCH CENTER: <http://www.astronomycenter.org/index.cfm>

+ BIODIRECTORY: http://mybio.net/biowiki/Main_Page

Free Online Resources in Biology, Chemistry, Genetic Sequencing, Proteins, and Medicine.

+ THE BIOLOGY CORNER <http://www.biologycorner.com/>

On the site, visitors will find labs,worksheets, and various classroom activities. The "webquests" feature on the site is particularly interesting; this type of exercise requires students to peruse several websites that address a certain theme or topic. Some of the themes covered include bioethics, evolution, and genetics. Additionally, the site also contains a section of online quizzes and links to other science education resource websites of note.

+ BIOPORTAL [pdf] <http://www.bioportal.gc.ca/>

A clearinghouse of information both about biotechnology in general and about the various governmental strategies they have adopted in order to encourage development in this area. The materials on the site are divided into five sections: "BioGateway", "BioBasics", "BioStrategy", "BioRegulations", and "BioGov".

Laypeople may wish to start their exploration of the site at the "BioBasics" section. Here they can learn about the various types of biotechnology and their applications in the environment, food production, and as a form of sustainable development.. It's worth noting that visitors can also sign up for email updates on the site.

+COMPUTATIONAL BIOLOGY - BIOINFORMATICS BLOGS

<http://wiki.nodalpoint.org/blogs>

+CHEMISTRY: THE ROYAL SOCIETY OF CHEMISTRY BUILDS A VIRTUAL LIBRARY:

<http://web.fumsi.com/go/article/share/2818>

+CHEMISTRY WORLD <http://www.rsc.org/chemistryworld/CWLatestNews.xml>

+ **ECOLOGY:** Teaching Issues and Experiments in Ecology [pdf]

<http://tiece.ecoed.net/index.html>

Teaching Issues and Experiments in Ecology (TIEE) is a "peer-reviewed webbased collection of ecological educational materials." TIEE relies on high-quality submissions from college educators across the United States and Canada. The materials here are divided into several sections, including "Research", "Issues to Teach Ecology", and "Experiments to Teach Ecology".

These sections feature full-length articles like "Insect Predation Game: Evolving Prey Defenses and Predator Responses" and "The Ecology of Disturbance". The site is rounded out by a superb "Teaching" area. Here one can read essays on guiding class discussion and other related topics.

+ GLOBAL BIOMEDICAL RESEARCH COMMUNITY: BioWizard: <http://www.biowizard.com/>

A free subject portal with many interesting features, including select free full text articles in subject areas encompassed by the Biomedical Sciences.

+ BIOLOGY EDUCATION ONLINE: INCLUDES LESSON PLANS:

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

+ BIOTECHNOLOGY INFORMATION DIRECTORY:

<http://biotech.cato.com/>

+ ENGINEERING: THE WORLD WIDE WEB VIRTUAL LIBRARY FOR ENGINEERING:

<http://wlib.org/Engineering>

+LIBRARIANSHIP: ISSUES IN SCIENCE AND TECHNOLOGY LIBRARIANSHIP

<http://www.istl.org/08-winter/index.html>

The Winter-Spring 2008 issue of Issues in Science and Technology Librarianship is now available.

+ METEOROLOGY EDUCATION:

<http://www.metted.ucar.edu/>

IX. ACCESS TO THESIS AND DISSERTATION RESEARCH:

+Access to the complete, full text of Scientific and Engineering Dissertations may be found in two sites:

+**MIT: Massachusetts Institute of Technology:** Over 18,000 theses and dissertations are

included: <http://dspace.mit.edu>

+ University of Maryland: <http://www.lib.umd.edu/drum>
(Includes the School of Engineering: <http://www.lib.umd.edu/drum/handle/1903/1654>)

X. OTHER RESOURCES:

+ NANOTECHNOLOGY: A POLICY PRIMER. CRS report, May 20, 2008
<http://fpc.state.gov/documents/organization/106154.pdf>

+ NANOTECHNOLOGY AND U.S. COMPETITIVENESS: ISSUES AND OPTIONS.
CRS report, May 15, 2008
<http://fpc.state.gov/documents/organization/106153.pdf>

NEW + COMPLETE WORKS OF CHARLES DARWIN ONLINE:
<http://darwin-online.org.uk/>

+ SCIENCE FAIR PROJECTS: A BIBLIOGRAPHY FROM THE LIBRARY OF CONGRESS:
<http://www.loc.gov/rr/scitech/tracer-bullets/scifairtb.html>

+ SCIENCE TRACER BULLETS FROM THE LIBRARY OF CONGRESS: COMPLETE LIST:
<http://www.loc.gov/rr/scitech/tracer-bullets/tbs.html>

+ SCIENCE INTERNET RESOURCES FROM THE LIBRARY OF CONGRESS: SELECT LIST:
<http://www.loc.gov/rr/scitech/resources.html>

+ SCIENCE REFERENCE GUIDES FROM THE LIBRARY OF CONGRESS: COMPLETE LIST:
<http://www.loc.gov/rr/scitech/sci-ref-guides.html>

+ SCIENCE TECHNOLOGY GUIDES FROM THE LIBRARY OF CONGRESS:
<http://www.loc.gov/rr/scitech/>

Includes the LIBRARY OF CONGRESS A to Z index of Science Reference Sites:
<http://www.loc.gov/rr/scitech/azindex.html>

+ THE INTERNET AS A RESOURCE FOR NEWS AND INFORMATION ABOUT SCIENCE: PEW
INTERNET AND AMERICAN LIFE PROJECT:
http://www.pewinternet.org/ppf/r/191/report_display.asp

+ KNIGHT SCIENCE JOURNALISM TRACKER: HOW JOURNALISTS COVER SCIENTIFIC
DEVELOPMENTS: <http://ksjtracker.mit.edu/>

+ UCSB SCIENCE LINE: ASK A QUESTION AND GET ANSWERS:
<http://www.scienceline.ucsb.edu/index.html>

List of Scientific Topics covered in the past at:
<http://www.scienceline.ucsb.edu/search/DB/search.php>

+ SCIENCE 2.0: GREAT NEW TOOL, OR GREAT RISK? Scientific American: **Wikis, blogs and other collaborative web technologies could usher in a new era of science.**

By M. Mitchell Waldrop: "The explosively growing World Wide Web has rapidly transformed retailing, publishing, personal communication and much more. Innovations such as ecommerce, blogging, downloading and open-source software have forced old-line institutions to adopt whole new ways of thinking, working and doing business. Science could be next. A small but growing number of researchers--and not just the younger ones--have begun to carry out their work via the wide-open blogs, wikis and social networks of Web 2.0. And although their efforts are still too scattered to be called a movement--yet--their

experiences to date suggest that this kind of Web-based "Science 2.0" is not only more collegial than the traditional variety, but considerably more productive."

<http://www.sciam.com/article.cfm?id=science-2-point-0-great-new-tool-or-greatrisk&print=true>

+ SCIENCE AND TECHNOLOGY POLICYMAKING: A PRIMER. CRS report, updated April 22, 2008
<http://www.fas.org/sgp/crs/misc/RL34454.pdf>

+ ENHANCED CAPACITY FOR WHITE HOUSE SCIENCE AND TECHNOLOGY POLICYMAKING: RECOMMENDATIONS FOR THE NEXT PRESIDENT.

<http://wilsoncenter.org/news/docs/OSTP%20Paper1.pdf>

From the Woodrow Wilson International Center for Scholars, June 2008 (29 pages)

There is a news release, "White House Science Office Needs Critical Upgrade", June 17, 2008, at:

http://www.wilsoncenter.org/index.cfm?fuseaction=news.item&news_id=448130

+ SCIENCE, TECHNOLOGY, AND FOREIGN POLICY: BACKGROUND AND ISSUES FOR CONGRESS. CRS report <http://www.fas.org/sgp/crs/misc/RL34503.pdf>

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All links work as of this date

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