

RESEARCH & SCIENCE BUILDINGS

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Book citations that include a call number can be found at the Kappe Library; other books are identified by author, title and date. Magazine articles are selected from the *Avery Index* and the *Art Index* databases; to identify which are available at the Kappe Library, see the *Periodicals In the Collection* reference.

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KEYWORDS

Accelerator laboratories, Aeronautical laboratories, Agricultural laboratories, Astronomical observatories, Atomic accelerators, Biological laboratories, Chemical laboratories, Computer centers, Electronics laboratories, Environmental laboratories, Geological laboratories, Medical laboratories, Meteorological stations, Metrology laboratories, Pharmaceutical laboratories, Planetariums, Research centers, Research facilities, Research parks, Space stations, Veterinary laboratories, Wildlife sanctuaries, Zoos

TOOLS TO GET STARTED

Real Time Science Data Access Page, <http://www.math.montana.edu/~t Slater/real-time/index.html>
 U.S. Government Labs, <http://info.er.usgs.gov/network/gov.html> (Best directory & links)
 Yahoo! links to research labs, <http://dir.yahoo.com/Science/Research/> (See "Commercial Research Labs" and "Government Labs")

RESEARCH & SCIENCE BUILDINGS A - Z:

ARCHITECTURE: GENERAL COLLECTIONS OF PROJECTS

AIA, *Advanced Technology Facilities Design: 1995 Review*, NA6751.A7A4 1995
 Architectural Record Magazine, *Buildings for Research*, NA6751.A7 (Collection of projects from 1958)
 "Laboratories in Low-Tech Contexts," *Architectural Record*, March 1994 (Theme issue)
 "Laboratory Innovations," *Architecture*, March 1993 (Theme issue)
 "Machines for Discovery," *Progressive Architecture*, November 1994 (Theme issue)
 "Laboratories and Specialty Environments," *Architecture Minnesota*, July/August 1994
 "Research Buildings," *Canadian Architect*, June 1996 (Theme issue)
 "Research Facilities," *Architecture*, March 1996 (Theme issue)
 "Research Laboratories," *Architectural Record*, February 1991 (Theme issue)
 "Three Laboratory Buildings," *Byggekunst*, v. 78, no. 3, 1996
 "Unclonable Architecture," *Architectural Record*, June 1999 (Building type study)

ASTRONOMICAL RESEARCH

American Astronomical Society, <http://www.aas.org/>
 Astroweb: astronomy/astrophysics on the Internet, <http://www.stsci.edu/astroweb/astronomy.html>
 Astronomy: Observatories, <http://www.webhead.com/WWWVL/Astronomy/observatories.html> (Links to optical, radio, space & other)
 Pulsar's Astronomy Links, <http://www.users.dircon.co.uk/~jnwebb/links.htm> (Exhaustive personal page of links)
 Sharma & Piazza, "Bridges to Stars: Astronomical Observatories in India," *Ottogono*, June/August 1994

BIOLOGICAL, MEDICAL & VETERINARY RESEARCH

"High Tech Humanism," *Architecture*, March 1993 (Theme issue)
 National Center for Research Resources, <http://www.ncrr.nih.gov/access.htm> (Links to biomedical & medical research labs)
 Net Vet, <http://netvet.wustl.edu/>
 "Pharmaceutical Research Centre Competition," *Architects' Journal*, July 1, 1981
 "Veterinary School Proposals," *Architektur & Wettbewerbe*, September 1985

Veterinary Laboratories & Diagnostics, <http://netvet.wustl.edu/vetmed.htm>
Watson, *The Double Helix*, QD341.A2315
Winkler & Gayler, "Developing Bioscience Facilities, *Urban Land*, April 1994

BOTANICAL RESEARCH

Botanical Society of America, <http://www.botany.org/>
Cooperative State Research Education & Extension Service, <http://www.reeusda.gov/> (Agriculture & plant research)

BUSINESS, LABOR & MANAGEMENT

The Certified Research Administrator's Home Page, <http://infoserv.rtonet.psu.edu/spa/cra.htm>
Qualitative Report, <http://www.nova.edu/ssss/QR/index.html> (Internet magazine)

CHEMICAL RESEARCH

Chemistry Web, <http://www.ssc.ntu.edu.sg:8000/chemweb/htmlj/>
"Competition for an Agricultural Chemistry Lab," *Casabella*, February 1980
International University Chemistry Departments, <http://www.liv.ac.uk/Chemistry/Links/international.html> (Includes research institutes)
Ockerman, *Illustrated Chemistry Laboratory Terminology*, QD51.O25 1991

COMPUTER SCIENCE

Barreneche, "Wiring Buildings for the Future," *Architecture*, April 1995
Collection of Computer Science Bibliographies, <http://i90fs4.ira.uka.de/bibliography/index.html> (Periodical index)
Computer Science Research Resources, <http://www.cs.umd.edu/documents/Csresources.html>
Computing Research Association (CRA), <http://cra.org/>
Doyle, "Retrofitting for Microelectronics Research," *Building Design & Construction*, August 1986
EE/CS Mother Site, <http://www-ee.stanford.edu/soe/ieee/esites.html>
IEEE ParaScope, <http://computer.org/parascopel/> (Directory of top parallel computing sites)
"Media Labs," *Architecture*, June 1997 (Theme issue)
National Coordination Office for Computing Information & Communications (NCO/CIC), <http://www.hpcc.gov/>
Monroe, "Optimal Computer Room Design," *Buildings*, March 1989
Olson, "Constructing Cost-Effective Computer Centers," *Building Design & Construction*, February 1985

CULTURAL ANALYSIS

Brand, *Media Lab*, T171.M49B74 1988
Latour, *Laboratory Life : The Construction of Scientific Facts*, QH315.L315 1986

DESIGN GUIDELINES

De Chiara, *Time-Saver Standards for Building Types*, 3rd, Reference-NA2760.D42 1990 (Chapter 11)
Ramsey/Sleeper, *Architectural Graphic Standards*, Reference-TH2031.R35 1994 (Chapter 20 "Greenhouses" & "Animal Care")
Ramsey/Sleeper, *Architectural Graphic Standards (electronic version) 2.0*, Library Workstation No. 2

EARTH SCIENCE RESEARCH

GeoGuide, <http://www.sub.uni-goettingen.de/ssgfil/geo/> (See "Source Type" for research institutions)
National Center for Atmospheric Research (NCAR), <http://www.ncar.ncar.edu/>
National Oceanographic & Atmospheric Administration, <http://www.noaa.gov/>
National Weather Service, <http://www.nws.noaa.gov/>
Naval Research Laboratory (NRL), <http://www.nrl.navy.mil/>
Oceanographic & Earth Science Links, <http://scilib.ucsd.edu/sio/dataserv/index.html> (Links to U.S. data centers)

ENGINEERING RESEARCH

Civil Engineering Research Foundation, <http://www.cerf.org/indexjs.htm>
Materials Research Society, <http://www.mrs.org/gateway/universities.html> (University departments & research centers)

EQUIPMENT

"Instrument," *Osiris*, no. 9, Q1.O7 (Theme issue)
Laboratory Equipment Online, <http://www.laboratoryequipment.com/>
Laboratory Network Com, <http://www.laboratorynetwork.com/>

FURNISHINGS & INTERIORS

Evans, "Active & Passive Lab Design," *Architects' Journal*, October 3, 1996 (On HVAC issues)
"Venting the Laboratory," *Architecture*, March 1993

MEASUREMENT & STANDARDS

Darton, *Macmillan Dictionary Of Measurement: Values, Volumes, Frequencies, Temperatures*, 1994
Dilke, *Mathematics & Measurement*, QA22.D55 1988
Koyre, *Metaphysics & Measurement: essays in scientific revolution*, Q175.K8674 1992
National Metrology Laboratories, <http://www.nist.gov/oiaa/national.htm> (International directory & links)
Regional Organizations and Metrology Systems, <http://www.nist.gov/oiaa/reg-orgs.htm> (Directory & links)
National Institute of Standards & Technology, <http://www.nist.gov/> (See "Calibration services")
National Standards Bodies, <http://www.nist.gov/oiaa/stnd-org.htm> (Directory & links)
Woolf, *Quantification : A History of Meaning of Measurement in the Natural Social Science*, 1961

MILITARY RESEARCH

AcqWeb, <http://www.acq.osd.mil/> (Department of Defense)
Defense Advanced Research Projects Agency (DARPA), <http://www.arpa.mil/>

PHYSICS RESEARCH

Atomic Physics Links, http://www-phys.llnl.gov/N_Div/atomic.html (See "Institutions")
"Centrales nucléaires: Operations Grands," *CREE*, February 1976 (On nuclear plant design)
"Die Architektur von Atomkraftwerk," *Werk*, v. 63, no. 4, 1976 (Theme issue)
"Interview with R. Wilson," *Arts & Architecture*, v. 3, no. 1, 1984 (On Fermilab National Accelerator)
Nuclear Physics Research Institutes, <http://www.rarf.riken.go.jp/rarf/np/nplab.html>
Physics Web, <http://physicsweb.org/TIPTOP/paw/> (Good links)

REPRESENTATIONS OF RESEARCH & SCIENCE BUILDINGS

ART. Ford, *Images of Science: a History of Scientific Illustration*, Q222.F67; Rosler, *Vital Statistics of a Citizen Simply Obtained*, 1977 (Pioneering video work); Wagner, *Art & Science: Investigating Matter*, TR647.W35 1996
LITERATURE. Brecht, *Life of Galileo*, 1943; Bush, *Science and English Poetry*, 1950; Goethe, *Faust, Part One*, 1808; Jonson, *The Alchemist*, 1612; Lewis, *Arrowsmith*, 1925; Science Fiction Resource Guide, <http://sflovers.rutgers.edu/Web/SFRG/> (Comprehensive, annotated links); Shelly, *Frankenstein*, 1818; Snow, *Strangers and Brothers* (A cycle of 11 novels, 1940-70); Stevenson, *Strange Case of Dr. Jekyll and Mr. Hyde*, 1886; Wells, *The Island of Dr. Moreau*, 1896
MOVIES. Brequet, *Without Love*, 1945; Brooks, *Young Frankenstein*, 1974; Corman, *The Man with the X-Ray Eyes*, 1963; Croenberg, *The Fly*, 1986; Ford, *Arrowsmith*, 1931; Greenaway, *Zed and Two Noughts*, 1987; Haynes, *Poison*, 1991; Hitchcock, *Torn Curtain*, 1966; Peters, *The Unearthly*, 1957; Trumbull, *Silent Running*, 1977; Whale, *The Invisible Man*, 1933

SPACE RESEARCH

Bedini, "Space Architecture," *I'Arca*, June 1996 (On Luna Lab)
Caprara, "A Home in Space," *I'Arca*, September 1994
European Space Agency, <http://www.esa.int/>
Huttenbach & Nixon, "A Future in Space," *I'Arca*, February 1993
National Aeronautics & Space Administration (NASA), <http://www.nasa.gov/>
Russian Space Agency, <http://www.rka.ru/english/eindex.htm>
"Space Station Design," *Architecture California*, November/December 1983
Summit, "Weightlessness and Interaction Distance," *Environment & Behavior*, September 1992
Tetlow, "Design Goes to Space," *Architecture*, May 1990
Universities Space Research Association, <http://www.usra.edu/>

ZOOS & NATURAL HISTORY RESEARCH

Foster, "The Earliest Zoos and Gardens," *Scientific American*, July 1999
Lockwood, "From Subdivision to Sanctuary," *Planning*, October 1996
Martin & O'Reilly, "Zoological Parks & Environment/Behavior Research," *Environment & Behavior*, July 1988
Zoo Web, <http://www.zooweb.net/> (International directory & links)
Zoological Record, <http://www.york.biosis.org/zrdocs/zoolinfo/zoolinfo.htm> (Extensive links)

