

Ferdinand D. Bluford Library

Water **Civil Engineering Master's Seminar** **A Selective Guide to Materials and Resources**

This guide contains a bibliography of titles and electronic resources that will assist students in locating materials for **Water**. This guide is general in its approach to finding materials and resources housed in the F.D Bluford Library and identifying and finding resources that may be on the Internet. It is not meant to be comprehensive. This guide is meant to help students organize their research as well as to give them tips on research strategy. Please come to the Reference Desk and talk with a Reference Librarian for assistance.

Using the Library Catalog

Establishing what resources F.D. Library owns on your subject should be your first priority. To do this, you must search the Library Catalog. The catalog can be searched via the original, text based interface or via the web browser interface. Both versions can be accessed from the library, any campus computer lab or from off campus via remote access. The Library Catalog can be searched by **KEYWORD**, **AUTHOR**, **TITLE**, **JOURNAL TITLE**, and by **SUBJECT**. Do a keyword search if you do not know a specific title or a standardized subject heading.

Also use these selected subjects: Aquacultural engineering, Aquaculture, Aquatic ecology, Aqueducts, Backwater, Ballast water, Bodies of water, Brackish water ecology, Compressed water, Dew, Distilled water, Drinking water, Environmental engineering, Environmental engineering testing, Environmental law, Environmental management, Environmental mediation, Environmental protection, Environmental sciences, Erosion, Flood control, Flood dams and reservoirs, Floodplain ecology, Floods, Fresh water, Frost, Groundwater, Hydrology, Hydrometallurgy, Irrigation water, Meltwater, Mineral water, Moisture, Nutrient pollution of water, Oil pollution of water, Polywater, Pore water, , Remediation, Steam, Water-aeration, Water-analysis, Water and civilization, Water as fuel, Water chemistry, Water-composition, Water conservation, Water diversion, Water-electrolysis, Water-entrainment, Water harvesting, Water in landscape architecture, Water-law and legislation, Water levels, Water masses, Water quality, Water quality bioassay, Water quality biological assessment, Water pipes, Water-purification--ozonization, Water-pesticide content, Water-pollution,-pollution potential, Water-purification, Water-purification--diatomaceous earth filtration, Water-purification—filtration, Water quality, Water resources development, Water reuse, Water standards, Water supply, Water treatment plants, Wave makers

Beginning Your Research

Use encyclopedias, handbooks, or dictionaries. Overviews or definitions of your topics are presented in concise entries or articles. More in depth analysis of your topic can be obtained from the bibliographies at the end of the articles or entries. The table of contents or index should be consulted for your topic.

Bibliographies, Dictionaries, Encyclopedias, and Handbooks

Dictionaries provide brief entries that are quick and helpful sources for the definition or identification of a term, movement, or person. Handbooks and dictionaries can help you throughout your research by providing quick, factual information that you may need to support your ideas.

Encyclopedias are also a good place to start, especially if you are unfamiliar with the topic. Articles in encyclopedias are often written by recognized authorities and tend to provide established facts and ideas about the topic, its history, basic theories, and important persons who have written related articles. Also, most encyclopedia articles close with a bibliography that may help you to establish your literature search.

Dictionaries provide brief entries that are quick and helpful sources for the definition or identification of a term, movement, or person in history. While dictionaries are not as broad as encyclopedias, they are particularly useful for choosing proper terminology.

Note: When using encyclopedias, first consult the index volume, usually the last volume of the set. This will tell you if your topic has an article devoted entirely to it or if it is discussed within an article on a related subject.

Circulating books are located in different sections of the library. Please consult the “location” on the online catalog, then use the directory located at the Reference Desk and by the elevators or ask for assistance.

Abatement of pesticide pollution: removal of organo-chlorine pesticide from water environment.

A&T STACKS TD427 P35 Y43 2005

Dictionary of civil engineering: English-French.

A&T REF TA9 K88 2004

Dictionary of water and waste management. rev. and updated edition

A&T REF TD9 S37 2002

Earthquake engineering & structural dynamics.

Wiley InterScience Online Books

Encyclopedia of associations. 38th edition. v. 1-4, supplement.

A&T REF AS2S E5

Encyclopedia of water.
A&T REF GB655 N48 2003

Environmental law handbook. 18th edition.
A&T REF KF3775 E473 2005

Environmental technologies handbook.
A&T STACKS TD897.5 E584 2005

Federal regulatory directory. 12th edition.
Ready Ref KF5406 A15 F4 2006
See: “Environmental Protection Agency”
“Energy Department”
“Homeland Security Department”
“Interior Department”
“Transportation Department”

Ground-water-level monitoring and the importance of long-term water-level data.
A&T WEB I 19.4/2:1217/2002
and
A&T GSM FED GOVDOC I 19.4/2:1217/2002

Handbook of groundwater remediation using permeable reactive barriers : applications to radionuclides, trace metals, and nutrients.
A&T STACKS TD426 H35 2002

Homeland security research and development at the EPA : taking stock and looking ahead : hearing before the Subcommittee on Environment, Technology, and Standards, Committee on Science, House of Representatives, One Hundred Eighth Congress, second session, May 19, 2004.
A&T GSM FED GOVDOCS Y 4.SCI.2:108-60
and
<http://purl.access.gpo.gov/GPO/LPS58334>

Identification and reduction of fecal coliform bacteria in an urban stream.
A&T SPEC COLL LD3914 N7 J6583 2002

Indicators for waterborne pathogens.
netLibrary

Information sources in engineering. 4th edition.
A&T REF T10.5 I49 2005

Library of Congress subject headings. 28th edition. 5 volumes
A&T REF Z695 Z8 L524a 2005

Shelved on dictionary stand adjacent to Vertical File.

NOTE: Use this source to identify established subject headings and for broader, narrower and related terms.

Magazines for libraries. 14th edition.
A&T READY REF Z6941 M23 2005

Modern groundwater exploration: discovering new water resources in consolidated rocks using innovative hydrogeologic concepts, exploration, drilling, aquifer testing, and management methods.
A&T STACKS GB1001.7 B57 2004

Regulatory chemicals handbook.
A&T REF TD176.4 S65 2000
and
netLibrary

Taking sides. clashing views on controversial environmental issues.
A&T REF GE170 T35 2003

2004 guidelines for water reuse.
A&T GSM FED GOVDOCS EP 1.104:W 39/CD

Ulrich's periodicals directory. 44th edition. 4 volumes
A&T READY REF Z6941 U5

Water: science and issues.
Gale Virtual Reference Center

Water encyclopedia v.1-5
A&T REF TD345 L393 2005

Domestic, municipal, and industrial water supply and waste disposal. v. 1

Water quality and resource development. v. 2

Surface and agricultural water. v.3

Ground water. v. 4

Oceanography; meteorology; physics and chemistry; water law, and water history, art, and culture. v. 5

Water-efficient landscaping: preventing pollution & using resources wisely.
A&T WEB
EP 1.2:2003001814

The world's largest floods, past and present [electronic resource] : their causes and magnitudes.

A&T GSM FED GOVDOCS I 19.4/2:1254

Electronic Book Collections

Access Science - McGraw-Hill Encyclopedia of Science & Technology. 9th edition.

- electronic encyclopedia covering trends and developments in science and technology; extensive bibliographies, biographies and definitions; and study guides and essays. The “Engineering & Materials” topic links to “petroleum engineering” and the “Environmental Science” topic links covers animal ecology, conservation, general ecology, ecosystem and plant ecology.

ASM Materials Information

- ASM Handbooks Online

- twenty ASM books covering topics such as corrosion, distortion, fatigue and fracture and failure analysis.

- ASM Alloy Center Online

- collection comprising over 2500 micrographs areas concentrating on alloys [data sheets and diagrams, alloy finder, materials property data, coatings data, and corrosion data].

- ASM Micrograph Center Online

- over 2500 micrographs focusing on industrial alloys such as ceramics and ferrous, nonferrous alloys and polymers.

- ASM Failure Analysis Center Online

- over 1000 failure analysis case histories and **Failure Analysis and Prevention** [volume 11 **ASM Handbook**].

ENGnetBASE

- books, produced by the Chemical Rubber Company [CRC], covering areas such as civil and environmental engineering and floods.

ENVIROnetBASE

- books, produced by the Chemical Rubber Company, covering categories such as ecology, environmental engineering, environmental law management and compliance, resource management and sustainability and water science, technology and engineering.

Knovel

- books on environment and environmental engineering.

MATHnetBASE

- books primarily in various areas of mathematics; includes book chapters covering civil engineering, energy and environment.

NANOnetBASE

- books focusing on electrical, lasers and optical, mechanical and nanotechnology engineering.

netLibrary

- over 42,000 books in the three disciplines: humanities, social sciences, and sciences.

POLYMERSnetBASE

- books concentrating on polymers.

Referex

- over 300 books focusing on materials and mechanical; electronics and electrical; and chemical, petrochemical and processes.

Wiley InterScience Online Books

- engineering, science, and technology books; includes as separate collection of reference titles.

Research Databases/Vendors

Electronic databases are accessible through the library's web page. Most databases have downloading, e-mailing and printing functions. Most of the databases and vendors detailed help links giving information for search date inclusion, material and subject coverage, and search strategies. This is a listing of databases/vendors to begin with:

AccuNet/AP Multimedia Archive

- provides primary photographic sources beginning in the 1840's to the present.

Agricola

- The AGRICultural OnLine Access bibliographic database covers agricultural and allied disciplines. The "NAL Catalog" collection cites audiovisual materials, books and serial publications. The "Article Citation Database" covers book chapters, journal, reports and reprints.

Annual Reviews

- Annual Reviews: Intelligent Synthesis of the Scientific Literature provides full text literature in biomedical, physical [environment and resources]and social sciences [public health]; also includes "forthcoming" link to "Reviews in Advance".

ArtStor

- database providing access to outstanding international museum collections.

ASCE Publications Civil Engineering Database

- database providing full text access to journals produced by the American Society of Civil Engineers; bibliographic citations to conference proceedings, books, standards, manuals, magazines and newspapers. Subject areas include aero-space, architectural engineering, bridges, cold regions, computer practices, construction, earthquake engineering, education, engineering mechanics, education, engineering mechanics, environmental engineering, forensic engineering, geotechnical engineering, geomechanics, highways, hydrology, hydraulics, irrigation and drainage, management, materials engineering, structural engineering, transportation, urban planning, water resources, waterway, port, coastal and ocean engineering.

Avery Index to Architectural Periodicals

- bibliographic database concentrating on journal literature in architecture and design, and design, history and the practice of archaeology, architecture, landscape architecture, architecture, city planning, historic preservation, and interior design and decoration as well as individuals in the profession.

Blackwell-Synergy

- database provides citation and some full-text journal articles in the area of engineering engineering [architecture, construction and materials science]; accessible from “E-Journal” link, then to alphabetical list below subject drop down window.

Cambridge Scientific Abstracts

- Agricultural and Environmental Biotechnology Abstracts

- CSA bibliographic database focusing on animals and plants covering their relationship in agriculture, the environment and the food industry; also includes patents and plant genome studies.

- ASFA 3: Aquatic Pollution and Environmental Quality

- CSA primary bibliographic database of books, journal literature, and conference proceedings focusing on aquatic resources, conservation and policy and legislation.

- BioEngineering Abstracts

- CSA bibliographic database of journal and conference proceeding literature focusing on biological and medical applications in engineering.

- Biotechnology and Bioengineering Abstracts

- CSA bibliographic database focusing on bioengineering and biotechnology research, application, regulatory developments and recent patents.

- CSA Engineering Research Database

- bibliographic database concentrating in civil, earthquake, environmental, mechanical and transportation engineering as well as forensic, management and marketing of engineering services, engineering education, theoretical mechanics and dynamics, and mathematics/computation. Database content covers basic and applied research, design, construction, technological and engineering aspects of air and water quality, environmental safety, energy production and developments in new technologies.

- NOTE: Also use: **ANTE: Abstracts in New Technology and Engineering Mechanical & Transportation Engineering Abstracts**

- CSA High Technology Research Database with Aerospace

- bibliographic database covering applications, companies, emerging technologies and research in aeronautics, astronautics, communications, computer and information information technology, electronics, space sciences and solid state materials and devices.

- NOTE: Also use: **Aerospace and High Technology Database**

- Conference Papers Index

- **CSA** global database focusing on papers as well as poster sessions in aquatic, environmental and life sciences and engineering, materials science and physics.

- Ecology Abstracts

- **CSA** global database focusing on plant and animal life in relation to the environment.

- EIS: Digests of Environmental Impact Statements

- **CSA** database focusing on United States environmental impact statements.

- Environmental Engineering Abstracts

- **CSA** global database focusing on air and water quality, energy production and environmental safety.

- Environmental Science and Pollution Management

- **CSA** bibliographic database covering the environmental sciences. Includes: agricultural biotechnology, air quality, aquatic pollution, bacteriology, ecology, ecology, energy resources, environmental biotechnology, engineering and domestic impact statements, hazardous waste, industrial hygiene, microbiology related to industrial and environmental issues, pollution, risk assessment, safety science, toxicology and toxic emissions, and water pollution, management and resource issues.

- Health and Safety Science Abstracts

- **CSA** database covering public health, industrial hygiene and safety.

Dissertation Abstracts Online

- database focusing on dissertations; can be searched by author, title or subject; includes full citation with abstract.

- NOTE: Some dissertations are available full-text through this database.

Ei Engineering Village 2

- Compendex

- enormous engineering research database providing journal citations and abstracts abstracts with some links to full-text, conferences and technical reports. Major areas covered include: aerospace and automotive engineering, agricultural engineering and food technology, applied physics, bioengineering, chemical and process engineering, civil, computers and data processing, control, electronics and communications, light and optical technology, materials, mechanics, nuclear technology, petroleum, and transportation.

- Inspec

- bibliographic database to conference proceedings and scientific and technical serials in the areas of communications, computers, computing, control engineering, electrical engineering, electronics, information technology, manufacturing and production engineering and physics.

- NTIS

- The United States Department of Commerce's National Technical Information Services database accessing unclassified reports from domestic and foreign government agencies including the Department of Energy. Additionally, audiovisual aids for fire services, foreign languages, law enforcement and workplace safety and health.

Emerald Full-Text

- full text database focusing on applied science, engineering, global management, and technology.

Environment & Energy Publishing

- access link is through "E-journals, then alphabetical list below subject drop down menu; daily webcast focusing on energy and environmental policy

- **E&ETV**
- **E&E Daily**
- **Greenwire**
- **Land Letter**

National Council for Science and the Environment.

Faulkner Advisory for Information Technology Studies

- concentrates on technology; includes some standards.

GaleNet Databases

- Biography Resource Center

- in addition to basic biographical information, this database usually includes a bibliography of further readings.

GeoScienceWorld

- international database focusing on geology with some engineering/environmental; remediation coverage.
 - NOTE: use with **GeoRef**

Highwire Press

- division of Sanford University Libraries, in conjunction with scholarly societies, university presses and publishers, producing a massive full text collection of peer-reviewed journals and other scholarly materials.

ILI Infobase

- international database providing bibliographic information on superseded and current engineering standards and specifications

Ingenta

- enormous bibliographic database for academic and professional research. Use the “Browse Publications” link; select “Subject Area” to limit searching under “Earth and Environmental Sciences” which covers ecology, geography, geology, geophysics and geomagnetism, meteorology and climatology and oceanography and “Engineering/Technology” covering biotechnology, chemical engineering, construction, electrical, and nuclear engineering, ergonomic, general and civil engineering, hydraulic and environmental engineering, industrial engineering, materials and manufacturing, mechanical engineering, mining and metallurgy, technology and transportation.

LexisNexis Academic

- full text bibliographic access to information in business, environmental, legal research, medical, statistical and United States history.

MAD/CAD

- database providing information on meeting codes, building codes and standards such as ADA, ANSI, BOCA, NFPA and knowledge-based design solutions.
 - NOTE: one user for this database; please “**logoff**”.

Project Muse

- full-text database focusing on journal literature in the arts and humanities and the social sciences; energy and environmental coverage from the former perspectives .

SAE Digital Library

- The Society of Automotive Engineers database covers SAE standards for: aerospace, aerospace material specifications and ground vehicles and technical reports for the areas of mobility engineering including aerospace, ground vehicle, manufacturing and off-highway technology.

Science Direct

- extensive full-text and bibliographic database in the three disciplines: arts and humanities, sciences and social sciences. Initially choose the subject area links “Energy” covering energy engineering and power technology, fuel technology, nuclear energy and engineering, renewable energy, sustainability and the environment; “Engineering” covering aerospace, automotive, biomedical, civil and structural, control and systems, electrical and electronic, industrial and manufacturing, mechanical and ocean engineering, computational mechanics, safety, risk, reliability and quality; and “Environmental Science” covering ecological modelling, ecology, environmental chemistry, environmental engineering, environmental science, global and planetary change, health, toxicology and mutagenesis, management, monitoring, policy and law, nature and landscape conservation, pollution, waste management and disposal, and water science and technology to access journal articles. Each subject link includes “25 Hottest Topics”.
 - NOTE: This database will indicate journal articles “in-process” and articles which have been withdrawn.

SpringerLink

- database with links to book and serial information in the areas of “Earth and Environmental Science” and “Engineering”.

Web of Science

- excellent bibliographic database for tracing publication citations.

- **Arts & Humanities Citation Index**
- **Science Citation Index**
- **Social Sciences Citation Index**

Wilson Web

- NOTE: use limiting features for peer review, full image and full-text results.
- **Applied Science & Technology Full-Text**
 - full-text database focusing on applied science and technology.
- **Biological & Agricultural Full-Text**
 - full text database covering agriculture and biology.
- **General Science Full-Text**
 - full text database focusing on the sciences.

- Legal

- full-text database covering legal information.

WorldCat

- massive global print and audiovisual bibliographic database; providing links to library holdings; use advance link to limit results.

Print Serials

Water and Wastes Digest

Water Environment Research: A Research Publication of the Water Environment Federation

WEF Highlights: News for Members of the Water Environment Federation

E-Serials

Acta Hdrochimica et Hydrobiologica via **Wiley Interscience Journals**

Annual Review of Environment and Resources via **Annual Reviews**

Annual Review of Public Health via **Annual Reviews**

Hydrometallurgy via **Science Direct**

Ground Water Monitoring and Remediation via **Blackwell Synergy** and **Cambridge**

Scientific Abstracts-Environmental Sciences and Pollution Mgmt

Journal of Environmental Engineering via **ASCE Publications Civil Engineering Database**

Journal of Environmental Quality [JEQ] via **Highwire Press**

Journal of Water Resources Planning and Management via **ASCE Publications Civil Engineering Database**

Engineering Database

Water, Air, & Soil Pollution via **SpringerLink**

Water and Environment Journal via **Blackwell Synergy**

Water Research via **Science Direct**

Government Documents

Government Documents cover a broad range of topics including criminal justice; laws and regulations; congressional hearings; Supreme Court opinions; and economic, demographic and agricultural statistics. You can access our Government Documents Collection several ways:

- the library homepage link to “Government Documents”
<http://www.library.ncat.edu/info/govdocs/govdocs.html>
 - “Government Links” provides statistical and local, federal and state, links
 - “Government Resources” links to databases; **GPO Access** is accessed here
- the Catalog
- the “Library Information” link to “Departments”, then “Government Documents”
- the Internet.

These documents use the Superintendent of Documents Classification Scheme and must be retrieved using that call number. The library's Government Documents Department is located on the lower level of the library.

“Protection of Environments” 40 *Code of Federal Regulations*.
A&T REF KF70 A3 2005

Partnering for Success. [electronic resource]
A&T GSM FED GOV DOCS E 1.2:2004019669

Government Databases

GPO Monthly Catalog [Catalog of U. S. Government Publications]

- database focusing on federal government publications and links to online publications.

GrayLIT Network

- database focusing on Department of Energy, Environmental, Protection Agency; includes EPA-National Environmental Publications Internet Site [NEPIS]

National Transportation Library

- database focusing on federal, state and local transportation operation, policy, research, and technology transfer activities; may be searched simultaneously with **TRIS Online**.

Science.gov

- database covering scientific and technical information from sixteen and twelve government science organizations and federal agencies respectively; topical links to “Earth Ocean Sciences”, “Environment & Environmental Quality”, and “Natural Resources & Conservation”.

TRIS Online

- database focusing on transportation research; may be searched simultaneously with **TRIS Online**.

USPTO Web Patent Databases

- database focusing on issued patents and published applications.

General Vendors/Databases

- **CollegeSource Online** [college and university course catalogs].
- **Jstor** [archival journal database for the humanities, sciences and social sciences].
- **Lexis-Nexis Academic** [database includes environmental and legal topics].
- **NCLIVE/EbscoHost** [limit search to peer reviewed, scholarly, referred journals].
- **ReferenceUSA** [United States business and residential directory].

Interlibrary Loan [requesting materials not held at Bluford Library]

- ✓ **Full citation**
- ✓ **Verification source**
- ✓ **OCLC, ISBN, ISSN**

Citing/Plugiarmism

- **EndNote®** [bring CD-RW or thumb drive]
- Retracted Research
- Plagiarism site: <http://www.ncat.edu/~acdaffrs/academicdishonestypolicy.htm>.

Organizations and Websites

Below is a web list of organizations associated with Engineering:

Air and Waste Management Association [A&WMA]

<http://www.awma.org>

American Academy Of Environmental Engineers [AAEE]

<http://www.aeee.net>

American Association Of Engineering Societies [AAES]

<http://www.aees.org>

American Consulting Engineers Council [ACEC]

<http://www.acec.org>

American Engineering Association [AEA]

<http://www.aea.org>

American Indian Science And Engineering Society [AISES]

<http://www.aises.org>

American Institute Of Engineers [AIE]

<http://www.members-aie.org>

American Society Of Civil Engineers [ASCE]

<http://www.asce.org>

American Water Resources Association [AWRA]

<http://www.awra.org>

Asociacion De Ingenieros Cubanos

<http://www.a-i-c.org>

Association Of Muslim Scientists And Engineers [AMSE]

<http://www.amse.net>

Centre of Documentation, Research and Experimentation on Accidental Water Pollution

<http://www.cedre.fr>

Clean Water Action

<http://www.cleanwateraction.org>

Environmental Assessment Association (EAA)

<http://www.iami.org/ea.html>

Environmental Defense

<http://www.environmentaldefense.org>

International Association for Continuing Engineering Education (IACEE)

<http://www.iacee.org>

International Association Water Resources Association [IWRA]

<http://www.iwra.siu.edu>

National Academy Of Engineering [NAE] *good site for women engineers

<http://www.nae.edu>

National Council Of Structural Engineers Associations

<http://www.ncsea.com>

National Society Of Black Engineers [NABE]

<http://www.nsbe.org>

National Society Of Professional Engineers [NSPE]

<http://www.nspe.org>

Society Of Engineering Science [SES]

<http://www.sesinc.org>

Society Of Hispanic Professional Engineers [SHPE]

<http://www.shpe.org>

Society Of Mexican American Engineers And Scientists [MAES]

<http://www.maes-natl.org>

Society Of Women Engineers [SWE]

<http://www.swe.org>

Water Environment Federation

<http://www.wef.org>

Assistance

- Alerting Services
<http://www.library.ncat.edu/ref/alerting/index.htm>
- service provided by many databases in which publishes will notify you, based upon your profile: Table of Contents alerts, keyword/research and citation alerts
- Ask-A-Librarian
<http://www.library.ncat.edu/services/askalib.html>
- email reference assistance.
- Individualized Instruction/Research Consultation
- by appointment, a one-on-one 30 minute session with a reference librarian concentrating on initial library resources.
- Interlibrary Loan/Document Delivery
- requests for materials not owned by F. D. Bluford library.
- Remote Access
- off-campus access to databases and e-books
- 24/7 Virtual Reference Service
<http://www.library.ncat.edu/services/247vrs.html>
- virtual reference assistance [**NC Knows**]
- University of North Carolina System and AggieONEcard
-University issued id. card which can be used to check-out circulating library materials from The University of North Carolina System.

The “How To Do A Literature Review” handout is available at the Reference Desk and through the library’s homepage under “Subject Guides & Handouts”.

Jacquelyn McGirt
Bibliographer to Civil, Architectural, Agricultural and Environmental Engineering
9-29-2006