

Electronic Resources Update

A Physical Sciences Newsletter

The Science Libraries Division, University of Chicago

Volume 5, Fall Quarter 2003



INSPEC on ISI Web of Knowledge

By Andrea Twiss-Brooks

The University of Chicago Library recently changed access to INSPEC. INSPEC is the primary indexing and abstracting tool for topics in physics, electrical engineering, electronics, communications, control engineering, computers and computing, and information technology from 1969 to present. International journals, conference proceedings, reports, dissertations, books, and periodicals are among the printed materials indexed.

In this Issue:

INSPEC MOVES TO ISI p. 1, 5

WHAT IS A DOI ? p. 2-3

CHEMISTRY CLOSING p. 4

THE IRB p. 4
views from the roof of Crerar

CORE LIST p. 5
of Astro Books & Journals

FYI p. 6

~ SCIENCE WRITING PRIZE
~ JAMES WATSON *Exhibit and Lecture*

To access INSPEC, use the Web of Knowledge URL:

isiknowledge.com (this is the same URL for Web of Science, Current Contents and ISI Chemistry Server). Besides connecting directly to INSPEC and using all the advanced search features available, it is now possible to do a CrossSearch on records from Web of Science, Current Contents and INSPEC in one step.

Simply type a word or phrase into the CrossSearch Concept box (or click CrossSearch Form for more options, including author searching) and click Search. A single set of results will appear.

Some records will be unique to one of the databases, others will be found in more than one. Web of Science does not cover books or conference proceedings and Current Contents has content for newer issues sooner, so

searching INSPEC together with Web of

Science and Current Contents gives a broader coverage of the literature. Click on the appropriate button to see the record from the database of interest.

Individual database records will include abstracts, keywords, as well as links to full text, interlibrary loan, or other services via the SFX button.



Inspec is continued on page 5

What is a DOI?

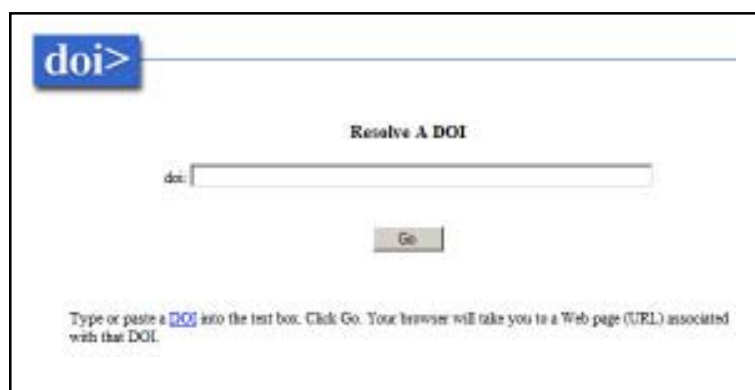
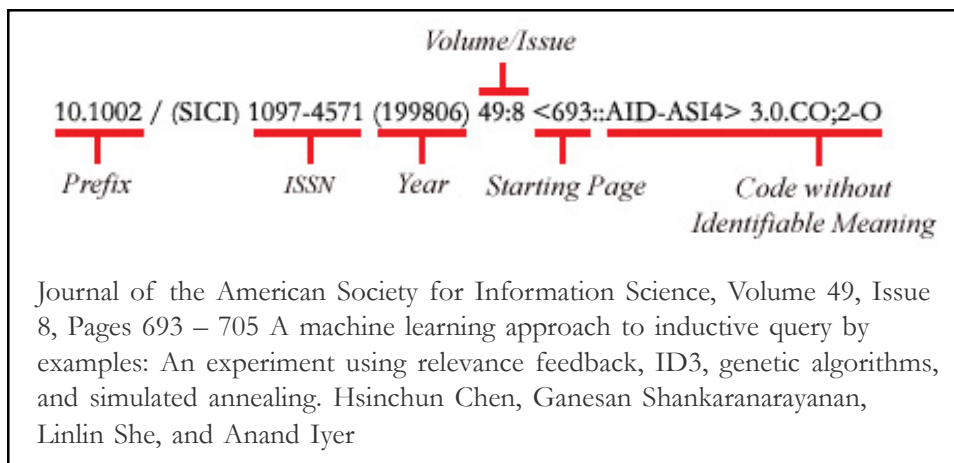
By Andrea Twiss-Brooks

DOI stands for **Digital Object Identifier**. This is a way of uniquely identifying an article, book chapter, technical report, or other type of electronic file. Just as an ISBN (International Standard Book Number) identifies a particular book title, or an ISSN (International Standard Serial Number) identifies an entire journal, the DOI represents a single article within an electronic journal.

The DOI consists of two parts: a prefix (which is generally unique to each publisher or society) and a suffix (which identifies the particular article). Some suffixes contain meaningful strings of information; others do not. In the example below, the DOI prefix is 10.1002. The suffix contains several pieces of identifiable information including the ISSN for the journal, year, volume/issue, and starting page for the article. It also contains some code that does not have meaning independent of the DOI context.

Question: *If I have a DOI, how do I find the article?*

Answer: If you have a DOI from an article reprint, or some other source, you may use the “DOI resolver service” to locate the article on the web. The DOI system uses a resolution system to assure persistence by resolving the DOI to a current associated value such as a URL; users of DOIs need not be aware of changes to URLs in order to use the system.



To use this resolver service, point your browser to dx.doi.org and type (or copy and paste) in the complete DOI (prefix and suffix). You must include all punctuation, retain upper and lower case letters, and do not add spaces.

Question: *Now that I have this article with a DOI, how do I cite it?*

Answer: Using DOIs in article references is a fairly recent phenomenon, and very few standards for citing them in scientific journals exist. A few journals and publishers have specific style

guidelines for incorporating DOIs in their instructions for authors; most do not. Some of the publishers who provide specific guidelines for using DOIs in references are those who are also relying on DOIs as the authoritative article identifier (e.g. American Geophysical Union). Other publishers may request DOIs for citing “in press” articles or articles which are essentially web editions issued prior to print publication which do not yet have

traditional pagination. It may be acceptable, in the absence of more specific instructions; to follow the overall recommended style for article references provided by the journal, incorporating the DOI just after the pages or citation number. When in doubt, it may be prudent to contact the journal editorial office for additional guidance or clarification.

Here are some specific examples of how to cite an article with a DOI:

American Geophysical Union

Form of the citation:

Author(s), Title of article, *Journal title (in italics)*, *Volume number (in italics)*, Issue number (in parentheses), Page(s) (or Citation Number), DOI, Year (do not include month or date)

Example (with citation number instead of pages):

Ma, J., D. W. Waugh, A. R. Douglass, S. R. Kawa, and S.-J. Lin, Evaluation of the transport in the Goddard Space Flight Center three-dimensional chemical transport model using the equivalent length diagnostic, *J. Geophys. Res.*, 108(D6), 4201, doi:10.1029/2002JD002268, 2003.

American Meteorological Society

Form of the citation:

Author(s), publication year: Article title. *Journal Name (abbreviated according to the abbreviations listed in the Chemical Abstracts Service Source Index, italic)*, **volume number (bold)**, citation number, DOI code (set lower case, with no space between “doi:” and the code).

Example (with citation number instead of pages)::

Meixner, T., L. A. Bastidas, H. V. Gupta, and R. C. Bales, 2002: Multicriteria parameter estimation of models of stream chemical composition. *Water Resour. Res.*, **38**, 1027, doi:10.1029/2000WR000112.

Question: *How do I find out more about DOIs?*

Answer: Here are some web sites with more information.

Digital Object Identifiers (DOIs) and Clifford Lynch's five questions on identifiers

by William Y. Arms, *Corporation for National Research Initiatives* October 13, 1997

www.arl.org/newsltr/194/arms.html

This is a good, basic, short discussion of DOI from publisher standpoint.



Identifiers and Their Role In Networked Information Applications

by Clifford Lynch, Executive Director, *Coalition for Networked Information*

Source: *ARL: A Bimonthly Newsletter of Research Library Issues and Actions* 194 (October 1997). Washington, DC:

Association of Research Libraries.

www.arl.org/newsltr/194/identifier.html

Discusses in accessible language, what identifiers are, historical development of precursors to DOI, and implications for their use.

Unique Identifiers: a brief introduction

by Brian Green and Mark Bide

Revised edition March 1997, © Book Industry Communication and EDItEUR 1996, 1997

www.bic.org.uk/uniqueid.html

A more indepth guide written primarily for a publishing industry audience.

Closing of the Chemistry Library



The Chemistry Library located in George Herbert Jones Laboratory at the University of Chicago was closed on September 2, 2003.

Staff from the Library and from Hallett and Sons (movers) packed books, journals, furniture, and equipment, and moved them into the John Crerar Library during the waning days of summer.

This move was made in anticipation of and supports the consolidation of research programs in the Interdivisional Research Building, currently under construction and adjacent to the John Crerar Library. Books and journals from the Chemistry Library have, for the most part, been moved to their new, permanent locations in the John Crerar Library.

Much of the material in chemistry is available in electronic format via the web. Some useful links for finding articles, books and more include:

Chemistry Subject Page
www.lib.uchicago.edu/e/su/chem/

Chemistry Electronic Journals
www.lib.uchicago.edu/e/chem/db/ej/

Web Versions of Chemistry Reference Books
www.lib.uchicago.edu/e/su/chem_e_reference_books.html

Users of the library should contact the John Crerar Library Circulation Desk or the Reference Desk with any questions about access to chemistry materials.



For assistance with more in-depth reference questions in chemistry, assistance with SciFinder

Scholar or CrossFire Beilstein/Gmelin, or to arrange for chemical information instruction or orientation, contact:

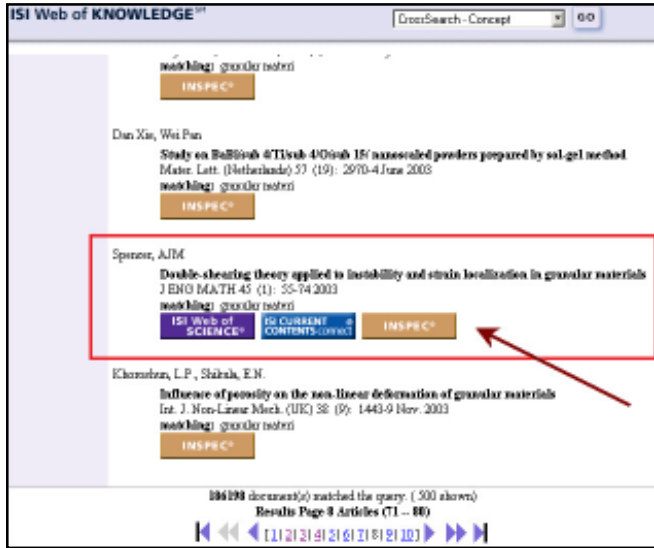
Andrea Twiss-Brooks, Bibliographer for Chemistry, Physics, Geophysical Sciences, and Technology (773-702-8777 or email: atbrooks@uchicago.edu) or just stop by her office (JCL 132).

IRB Construction: A View from the Roof of Crerar

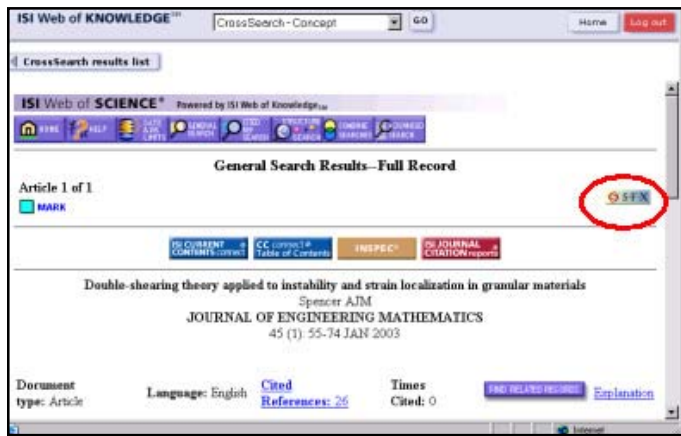
Brave library staff, camera in tow, ventured onto the roof of the John Crerar Library to gain a bird's eye view of the IRB construction site. The following is a sampling of the photos taken.

More photos can be found at:
www.lib.uchicago.edu/e/crerar/current/construction.html





This article was found in three databases - *Web of Science*, *Current Contents* and *Inspec*.



The SFX button will link you to full-text, inter-library loan and other services.



Contact us with any questions and/or comments.

The Core List of Astronomy Books has been updated

By Barbara Kern
ads.harvard.edu/

The *Core List of Astronomy Books* and *Core List of Astronomy and Physics Journals* have been updated and are available in HTML and PDF formats from the NASA Astrophysics Data System (ADS).

Updated every two years, the *Core List of Astronomy Books* provides an up-to-date, comprehensive listing of the monographic literature available in the field of astronomy. The last attempt to create such a listing was Seal and Martin's *A Bibliography of Astronomy, 1970-1979*. There are seven major categories: Abstracts and Indexes, Atlases and Catalogs, Bibliographies, Directories and Encyclopedias, Handbooks and Yearbooks, Texts and Textbooks.

The *Core List of Astronomy and Physics Journals* "is a list of highly-used and highly-cited physics and astronomy journals. "Use" is measured largely on paper-journal counts from selective academic research-level libraries. Citation count titles are drawn from Institute for Scientific Information (ISI) data. Recognition is given to entrepreneurial electronic-only or new-style electronic journals. Selective news, magazine, and general science journals are omitted." (ADS)

The purpose of both lists is two-fold. First they act as a guide for librarians who are building astronomy and physics collections. Second they attempt to serve as a bibliographic resource for researchers and teaching faculty.

Questions, comments and suggestions are welcome. Contact Liz Bryson, bryson@cfht.hawaii.edu.



The John Crerar Foundation Science Writing Prize for College Students

By Barbara Kern

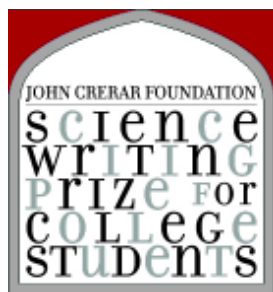


www.lib.uchicago.edu/e/classpages.

First prize is \$1500.00 and second prize is \$500.00.

The John Crerar Foundation, which was formed in 1981 as one of the conditions of the merger of the independent John Crerar Library with the University, acts to perpetuate the name of John Crerar and to provide targeted support to the John Crerar Library. Recognizing that society needs to be better informed about science, the Foundation has established a new prize at the University of Chicago.

An annual award will be given to the best paper written by a University of Chicago undergraduate on a scientific theme. The paper must be understandable to those who study either a biomedical or a physical science, however its arguments must be clear to the non-specialist. Our hope is to encourage students to connect their own studies and research to the



larger effort of public education and understanding.

Each year, the prize committee will select a topic for submission. The topic will be broad enough to cover both the biomedical and physical sciences. Alternately two topics may be chosen - one for each discipline. Students must write their paper based on the topic presented to them (or select one if a choice is given), however they can write it from any perspective (i.e.: physical science, biomedical science, ethics, history, religion, politics). The competition is not restricted by year of study or area of concentration.

An important component of the paper will be the bibliography, which must include citations from a variety of sources. Students are encouraged to contact their Class Librarian for research assistance

Please consult our new web page for more details about the prize and program: www.lib.uchicago.edu/e/crerar-prize/

We hope that you will encourage your students to submit an entry. If you have any questions or comment please feel free to contact Barbara Kern at 702-8717, bkern@uchicago.edu.

Honest Jim: James D. Watson the Writer, An Exhibit at the John Crerar Library

January 19th-May 28, 2004

Fifty years ago James Watson and Francis Crick made one of the major discoveries of the twentieth century: they deciphered the double helical structure of DNA. The discovery began a revolution in molecular biology that led to major advances in science and medicine.

Watson and Crick both continued their scientific careers but Watson also embarked on a new one, as a writer.

Beginning with Watson's early years as a South Sider and an undergraduate at the University, the exhibit chronicles his life as an author of remarkable writings, both literary and scientific. Original documents offer his reflections on the people and events that influenced and inspired him.

The exhibit will open on Monday, January 19th, 2004 and feature a lecture by Dr. Watson at 4:00 P.M. in the Biological Sciences Learning Center, 924 East 57th Street. A reception will follow at 5:30 P.M. in the John Crerar Library Atrium, 5730 S. Ellis Avenue.

For details please visit: www.lib.uchicago.edu/e/crerar/exhibits/watson.html or contact Barbara Kern, 702-8717 / bkern@uchicago.edu

The exhibit is a collaborative effort between the Science Libraries Division and Cold Spring Harbor Laboratory.

Contact Information

John Crerar Library	773.702.7715	crerar-reference@lib.uchicago.edu
Eckhart Library	773.702.8778	bsr2@uchicago.edu
Yerkes Observatory	262.245.5555	yerkes@lib.uchicago.edu
Brenda Rice	773.702.8774	bsr2@uchicago.edu
<i>Mathematics/Statistics/Computer Science</i>		
Andrea Twiss-Brooks	773.702.8777	atbrooks@uchicago.edu
<i>Chemistry/Physics/Geophysical Sciences</i>		
Barbara Kern	773.702.8717	bkern@uchicago.edu
<i>Astronomy/Astrophysics</i>		



The ERU (Electronic Resources Update) is written and produced by the Science Libraries Division at the University of Chicago. This quarterly publication is distributed in print, on the web and via email.

To receive this newsletter in print or via email contact Barbara Kern at 702-8717 or bkern@uchicago.edu. For WEB access go to: www.lib.uchicago.edu/e/crerar/newsletter/