Better understanding users in a research setting.

Abstract: There are a wide variety of ways for librarians and information specialists to develop an understanding of their users and their information needs. This poster session will review some of the tools available to subject specialists in a research institute setting. Some uncommonly used approaches will be described, including:

1. Reviewing recent research publications for ISI corrections on a continuing basis.
2. Attending classes - setting up a web page for assigned journal references.
3. Analyzing cited references in research publications for books not held.
5. Comparing search results from different indexing/abstracting services

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1.Reviewing research publications in Web of Science for corrections.

I have been reviewing the Web of Science records, for articles authored by faculty members in Caltech's Division of Chemistry and Chemical Engineering, for several years. Since the quality control of the input process depends on human comparison of the original article and a scanned/OCR record, significant errors are possible. In the records below, the erroneous record elements are designated with an **. Each error is reported to the ISI Help Desk, with a copy to the affected author. ISI is now able to make corrections immediately to the WoS database.

Oxygen-mediated regulation …
… **We YW … **Wold A
J. CELL. PHYSIOL.  2001

Authors should read  Wei YW & Wold B

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Development and application …
Toste FD ... **
ABSTRACTS OF PAPERS …
Spectroscopic confirmation of a population …
**ASTROPHYS J
462 (1): L17-& Part 2 MAY 1 1996

This article is cited 350 times in NASA ADS database, but only 146 times in WoS with Astrophys J as the abbreviated journal title. WoS has an additional 248 cites with ApJ as the abbreviated journal title.

TOTAL SYNTHESIS OF (+)-K252A …
WOO** JL, STOLTZ BM, DIETRICH HJ
J AMERICAN CHEMICAL SOCIETY
117: (41) 10413-10414 OCT 18 1995

QM(DPT)** and MD studies …
Hua X** …, Che J**
NANOTECHNOLOGY
11: (2) 85-88 JUN 2000

**Spinophilin … Ca2+dependent protein
JOURNAL OF NEUROCHEMISTRY
90 (2): 317-324 JUL 2004

Ca2 and the Arabic(?) and Chinese(?) characters should read: Ca2+/calmodulin-
500,000 vehicle emissions readings …
Stedman DH, Bishop GA, Agee LD, Williams MJ
ABSTRACTS OF PAPERS …
225: 88 Part 1 MAR 2003

All the address' following the first were taken from the next abstract (#89).

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Amido … (CuCu1)-Cu-1** … (CuCu1.5)-Cu-1.5 **
Harkins SB, Peters JC
J AMERICAN CHEMICAL SOCIETY
126 (9): 2885-2893 MAR 10 2004

(CuCu1)-Cu-1 should read: Cu(1)Cu(1)
(CuCu1.5)-Cu-1.5 should read: Cu(1.5)Cu(1.5)
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Sampling methods used for the collection …
… Bae MS, Quinn P, Bate T**, Eatough DJ …
ATMOSPHERIC ENVIRONMENT
37 (11): 1435-1449 APR 2003

The third author's name should read: Bates T

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2. Attending classes …Web Page for Ch242 Chemical Synthesis

Several years ago, I audited Ch242 (Caltech's graduate level organic chemical
synthesis class). In cooperation with the instructor, who was new to Caltech, I
established a web page for the class:

http://library.caltech.edu/collections/chemistry.htm#CH242A

which includes links to the following resources.

    Beilstein Gmelin Journal Abbreviations
    Databases-Synthetic Techniques, Natural Products
The Journal Article References for Ch242 were transcribed from class notes each week and added to the web page with links to the full text of the article (if available), or a photocopy of the article was placed on reserve. For example:

References for 11/29/04 - 12/03/04

1a. Total synthesis of (+-)-methyl homosecodaphniphyllate.  
A remarkable new tetracyclization reaction
Roger B. Ruggeri, Marvin M. Hansen, Clayton H. Heathcock;  
*J. Am. Chem. Soc.*; 1988; 110(26); 8734-8736

1b. The Enchanting Alkaloids of Yuzuriha.  
Heathcock, Clayton H.;  
MIL-8 Ch 242 Reserve (photocopy)

Yujiro Hayashi  
in: *Cycloaddition reactions in organic synthesis /*  
edited by Shu Kobayashi and Karl Anker Jorgensen.  
MIL-8 Ch 242 Reserve (reserve book)

The 'Structure Searching (Beilstein/CCD/SFS)' handout was prepared for a one hour class offered each year and attended by graduate students and post-docs. It is primarily a tutorial on searching MDL Crossfire with brief reviews and comparisons with the Combined Chemical Dictionary and SciFinder Scholar. This contents include:

**STRUCTURE SEARCHING QUICK REVIEW -- 2005**

Beilstein/Gmelin
3. Analyzing cited references for new books …

Reference lists from recent articles are perused for possible additions to the library's book collection. Since Caltech's research is very selective, the library collects only for current research programs. The arrival of new faculty members generally highlights the need to purchase a number of books not previously held.

CHEN XJ PHYS REV B 2004 69 104518
CHEN XJ PHYS REV B 2001 64 212501
4. Custom New Book Lists

Each month, I prepare a custom 'new book list' from the master list posted to the Caltech Libraries web site. I delete non-essential information to produce an easily readable review of the month's new books and special journal issues. We have been routinely analyzing journals issues for conference proceedings and special topics for about 20 years. I also provide a delivery service for any requested items. For example:

Robinson, James W.
Undergraduate instrumental analysis.
Marcel Dekker, c2005.

Sierra, Miguel A.
Dead ends and detours :

Polymer synthesis.
Advances in polymer science ; 171.
QD281.P6 F6 no.171.

Modern aldol reactions.
5. Analyzing Einstein's Annalen articles in Wos, INSPEC, and SciFinder

I recently noticed that one of Albert Einstein's articles was missing from ISI's new 'Century of Science' (Web of Science, 1900-1944). Further analysis revealed that Einstein's articles (in Annalen der Physik) were not consistently indexed by the major indexing/abstracting services. For example, the listings below display the title of the original article in Annalen der Physik, followed by brief entries from CAplus, Web of Science/INSPEC.

Folgerungen aus den Capillaritätserscheinungen [AdP 4, 513 (1901)] A. Einstein
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CAplus

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Web of Science
Einstein A Conclusions from the capillarity occurrences ANNALEN DER PHYSIK 4 (3): 513-523 MAR 1901

INSPEC
Deductions from capillary phenomena Einstein, A. Annalen der Physik, v 4(3), March 1901, 513-523

Eine Theorie der Grundlagen der Thermodynamik [AdP 11, 170 (1903)] A. Einstein

CAplus
xxx

Web of Science
Einstein A A theory on the basics of thermodynamics ANNALEN DER PHYSIK 11 (5): 170-187 APR 1903

INSPEC
Foundations of thermodynamics Einstein, A. Annalen der Physik, v 11(1), April 1903, 170-187

Zur allgemeinen molekularen Theorie der Wärme [AdP 14, 354 (1904)] A. Einstein

CAplus

WoS
xxx

INSPEC
xxx

Die Plancksche Theorie der Strahlung und die Theorie der spezifischen Wärme [AdP 22, 180 (1907)] A. Einstein

SciFinder
Einstein, A. Planck's theory of radiation and the specific heat theory. Annalen der Physik (Weinheim, Germany) (1907), 22 180-190.

Web of Science
Einstein A The Planck theory of radiation and the theory of specific heat ANNALEN DER PHYSIK 22 (1): 180-190 DEC 1907

INSPEC
Planck's theory of radiation and the theory of specific heat Einstein, A. Annalen der Physik, v 22, n 1, 28 Dec. 1906, p 180-190