

Part II

To The Mountain Top:

- Some Solutions
- The Future

Some Solutions

- Best practices (already discussed)
- ISSN/Linking ISSN
- Multiple versions tools and displays
- KBART
- TRANSFER

A dramatic landscape photograph capturing a sunset or sunrise over a large body of water. The sky is filled with dark, heavy clouds, with a bright, golden light breaking through near the horizon, creating a shimmering path of light across the water's surface. The foreground shows dark, silhouetted land with some reflective pools of water. The text 'ISSN' is prominently displayed in the center of the image in a bold, yellow, sans-serif font with a white outline and a slight shadow effect.

ISSN

Identifiers are an
enormously powerful
tool for communication
within and between
communities.

Clifford Lynch

ISSN Provides Linking

OPACs

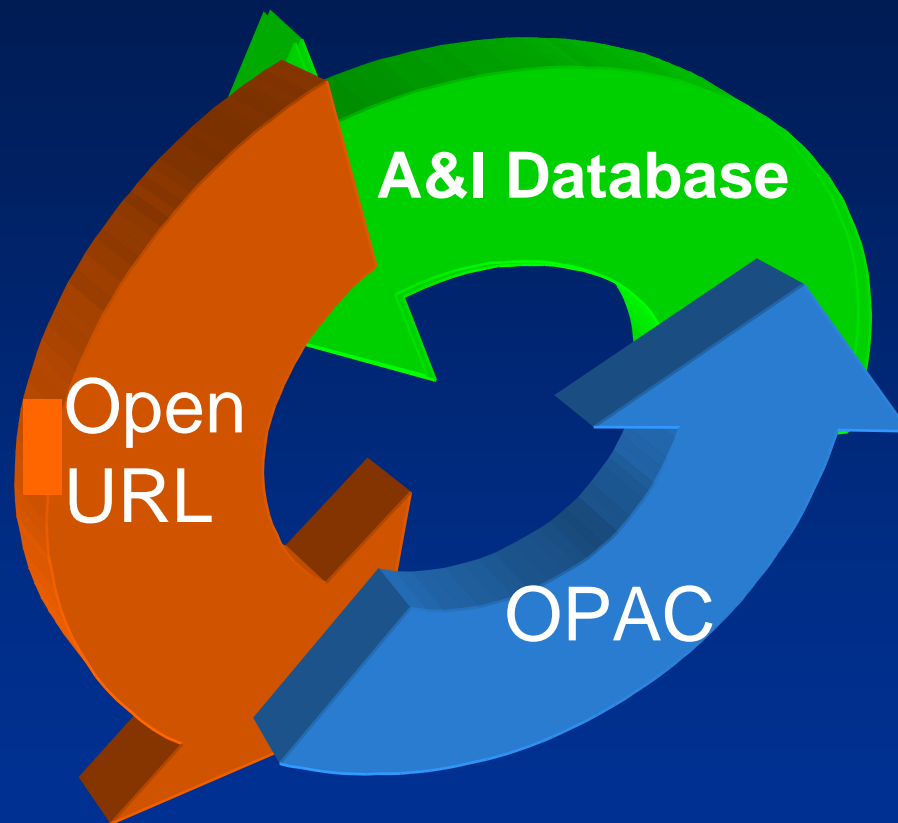
ERMS

OpenURL

Knowledge bases

A&I services

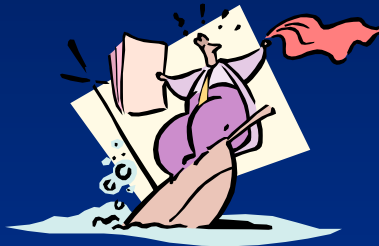
ISSN Portal



Facilitates Transactions



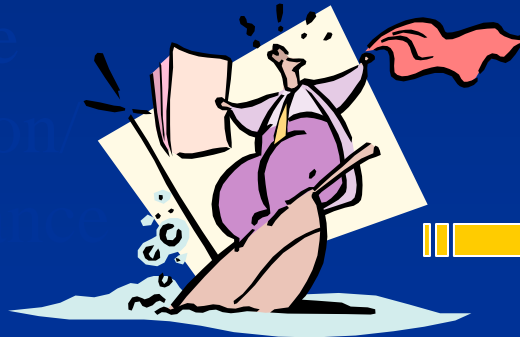
- Packages available
- Price lists



- E-subscriptions
- Print Holdings



• Coverage





ISSN Portal

Sat Jun 10 14:5
1251341 reco
ISSN NETWC
ISSN 1819-181

Home Quick Search Combined Search Expert Search Browse Submit (titles/ISSN) LTWA Disab

Back to last: Labelled Record Submit



Welcome to the ISSN Portal,
more than one million periodical
and for accessing related information
resources.

Free trial:

www.issn.org

You have an ISSN number, or a title, or a pub
name

You wish to target and refine your search

You have a complex search

You need to check ...

- an index

- an abbreviation

Combined search

Expert search

Browse

LTWA Disabled

LINK TO ...

- Newest publications entered (March 2006)
- Online publications
- ISSN assignment request
- ISSN validation request
- ISSN Statistics
- ISSN National Centres
- ISSN International Centre

Back to last:

[first record](#) | [previous record](#) | [next record](#) | [last record](#)
[full](#) | [marc](#)

Record 1896 of 1900

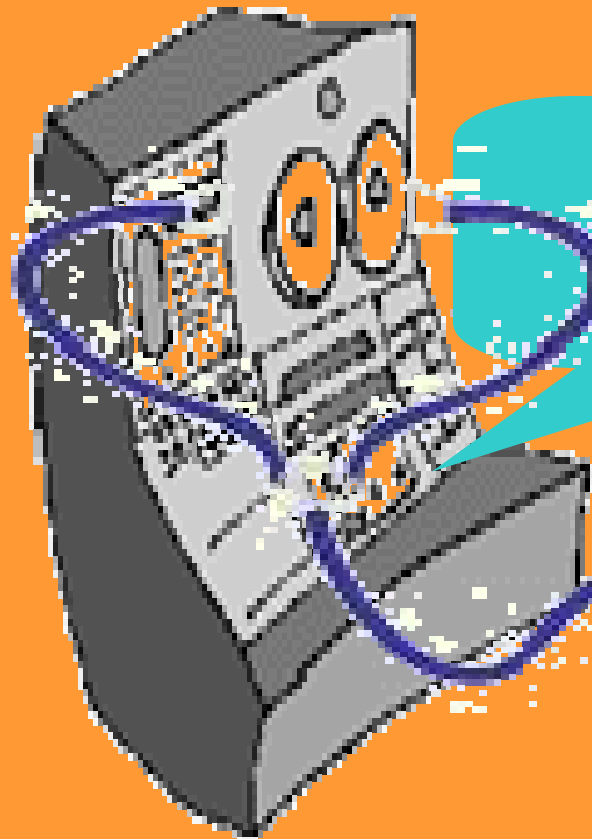
You searched ISSN database - Title : all: Ohio

ISSN	1945-6735
ISSN-L	1945-6735
Medium	Regular print
Key Title	Ohio Valley tails
Publisher	Chicago, IL : Tails Pet Media Group, 2006-
Country of publication	UNITED STATES
Dates of publication	2006 / 9999 current
Author	Tails Pet Media Group.
Frequency	Monthly
Type of publication	Periodical
Language	English
Title script	Basic roman
Title proper	Ohio Valley tails
Variant title	Tails
Variant title	Ohio Valley tails
Dewey classification	636.7 14
Additional	

ISSN
ISSN-L

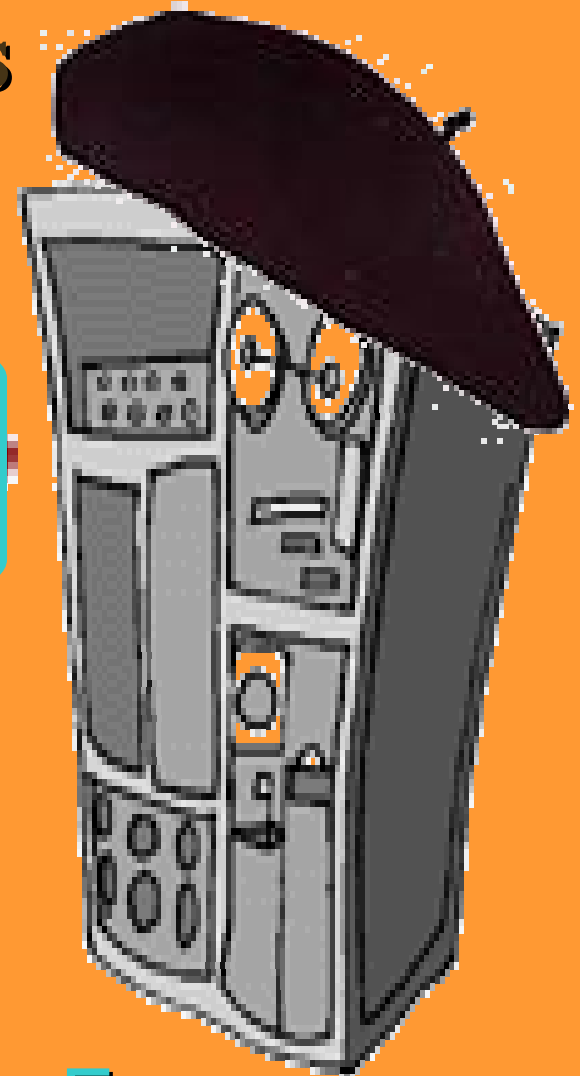
Links to other medium
Versions would be here

The Future: Machine to Machine Metadata Queries



Washington, DC

What's the
ISSN
for JAMA?



Paris, France

ISSN in Open URL Metadata

Record 15 of 286 in BIOSIS Previews

TI: Developmental expression of
amylases during barley malting.

AU: Georg-Kraemer-J-E; Mundstock-E-
C; Cavalli-Molina-S {a}

SO: Journal-of-Cereal-Science. [print]
May, 2001; 33 (3): 279-288.

IS: 0733-5210

PY: 2001

AB: Amylase activity and qualitative
changes in amylase isoenzymes as a
function of barley seedling age were
investigated in 10 Brazilian barley
cultivars

ISSN



ISSN Data Issues

- ISSN of print version in 022 \$a of e-resource record
- ISSN of former title in 022 \$a of later title
- ISSN misprinted by publisher in 022 \$a
- ISSN in CONSER record for non-U.S. title subsequently changed in ISSN Register, not updated in OCLC

"Multiple ISSN Problem"

- ISSN policy: separate ISSN for e-version
- Publishers were using single ISSN
- Some OPACs have separate records; others have single records
- Failures in OpenURL linking, record merging, de-duping, etc.

A separate ISSN
for
each version?

A single ISSN
to identify
all versions?

Revised ISSN International Standard

Date: 2005-07-15
(distributed via ISSN-L on 2005-07-15)

ISO/WD 3297.4

ISO TC 46/SC 9/WG 5

Secretariat: SCC

Information and documentation — International Standard Serial Number (ISSN)

Information et documentation — Numéro international normalisé des publications en série (ISSN)

Warning

This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

**ISO 3297: 2007
published August 2007**

Medium-specific Identification

- ISSN remains at this level
- Per *ISSN Manual*: separate ISSN for print, online, CD-ROM, etc. versions
- Same level prescribed by AACR2
- Used for specific “product” identification
 - library ordering, claiming, check-in
 - subscription agencies, EAN, CCC

SWETS



Millennium Serials - Innovative Library - b11959757

File Edit View Go Admin Tools Help

Serials Check-in

Save View Edit Media(0) WB Summary Browse Print Close

b11959757

Title **Wired.**
Imprint San Francisco, CA : Wired USA, c1993-
ISBNSSN 1059-1028
Call # PER

Identity Electronic format
Locations www

Summary | Record c10030591 | Card c10030591 | Holdings c10030591

Check-in date **Fri, Jul 25 2003**

Sep 2000	Oct 2000	Nov 2000	Dec 2000	Jan 2001	Feb 2001	Mar 2001	Apr 2001	May 2001	Jun 2001	Jul 2001	Aug 2001	Sep 2001	Oct 2001	Nov 2001	Dec 2001	Jan 2002	Feb 2002	Mar 2002	Apr 2002	May 2002	Jun 2002	Jul 2002	Aug 2002	Sep 2002	Oct 2002	Nov 2002	Dec 2002	Jan 2003	Feb 2003	Mar 2003	Apr 2003
ARRIVED 09-20-2000	ARRIVED 10-19-2000	ARRIVED 01-15-2002						ARRIVED 05-15-2001	ARRIVED 06-15-2001	ARRIVED 07-15-2001						ARRIVED 02-05-2002	ARRIVED 02-05-2002	ARRIVED 04-25-2002						ARRIVED 01-30-2003	ARRIVED 01-30-2003	ARRIVED 01-30-2003	ARRIVED 01-30-2003	EXPECTED 02-16-2004	EXPECTED 03-16-2004	EXPECTED 04-16-2004	EXPECTED 05-16-2004
v.8 no.9 1	v.8 no.10 1	v.8 no.11 1						v.9 no.5 1	v.9 no.6 1	v.9 no.7 1						v.10 no.1 1	v.10 no.2 1	v.10 no.3 1						v.10 no.9 1	v.10 no.10 1	v.10 no.11 1	v.10 no.12 1	v.11 no.1	v.11 no.2	v.11 no.3	v.11 no.4

Modify Boxes Individually

Status: **A ARRIVED**

Cover Expected Dates

Cover date: Month/Season Day Year
Jan 2002

Expected date: 02-05-2002

Enumeration

Levels: v. 10 no. 1

Claims written: 0

Total copies received: 1

URL: <http://www.wired.com/wired/archive/10.0/>

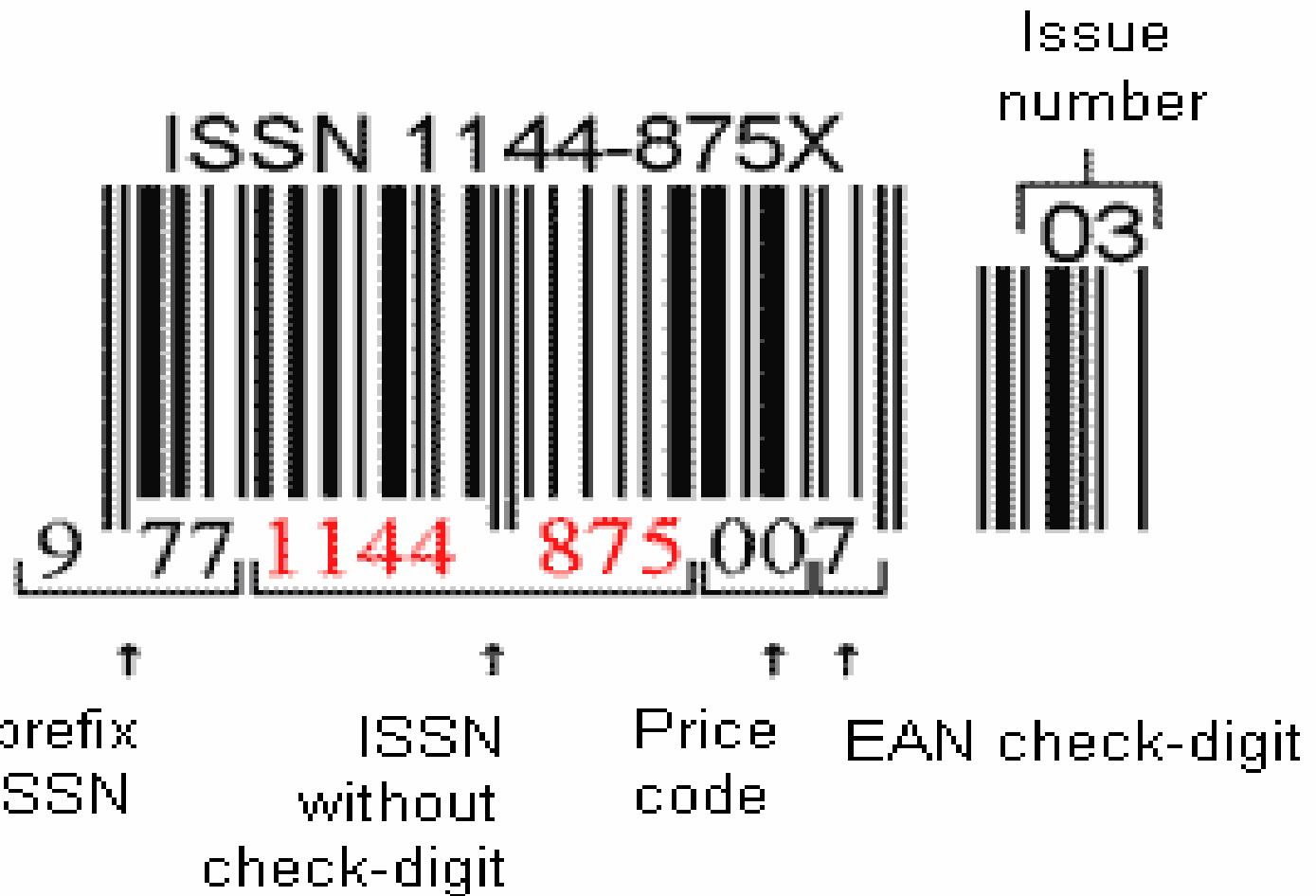
Note:

Suppress From Public Display:

Submit Cancel

42 boxes

EAN for a French serial



Medium-Neutral Identification/collocation

- OpenURL resolution regardless of multiple ISSN for manifestations
- Collocation in ERMS
- OPAC searching to retrieve all manifestations
- E-articles, bib records, or ERMS entries where there is no full online version of the serial
- All situations where identification without regard to medium is desired

ISSN-L

- First-assigned medium-specific ISSN
also = “ISSN-L”*
- Can be embedded into DOI, URN,
OpenURL
- Stored as a separate data element
- Cannot be predicted
- Cannot be derived

Made-Up Example: 022 \$I

008			990923c196999999xxuq p a0eng
022	0		\$a 1563-518X \$2 _0 \$1 0021-8464
082	0		\$a 541/.3453 \$2 [orig. ed.] ISSN-L
210	1		\$a J. adhes. \$b (Online)
222		4	\$a The Journal of adhesion \$b (Online)
245	1	4	\$a The Journal of adhesion.
246	1	3	\$a Adhesion
260			\$a New York: \$b Gordon and Breach.
776	1		\$t Journal of adhesion (CD-ROM) \$x 1026-5414
776	1		\$t Journal of adhesion (Print) \$x 0021- 8464

Record for print

022 0 \$a 0021-8464 \$1 0021-8464
222 06 <The> journal of adhesion &b (Print)

ISSN-L

Record for online

022 0 \$a 1563-518X \$1 0021-8464
222 06 <The> journal of adhesion &b (Online)

Record for CD-ROM

022 0 \$a 1026-5414 \$1 0021-8464
222 06 <The> journal of adhesion &b (CD-ROM)

Back to last:

[first record](#) | [previous record](#) | [next record](#) | [last record](#)

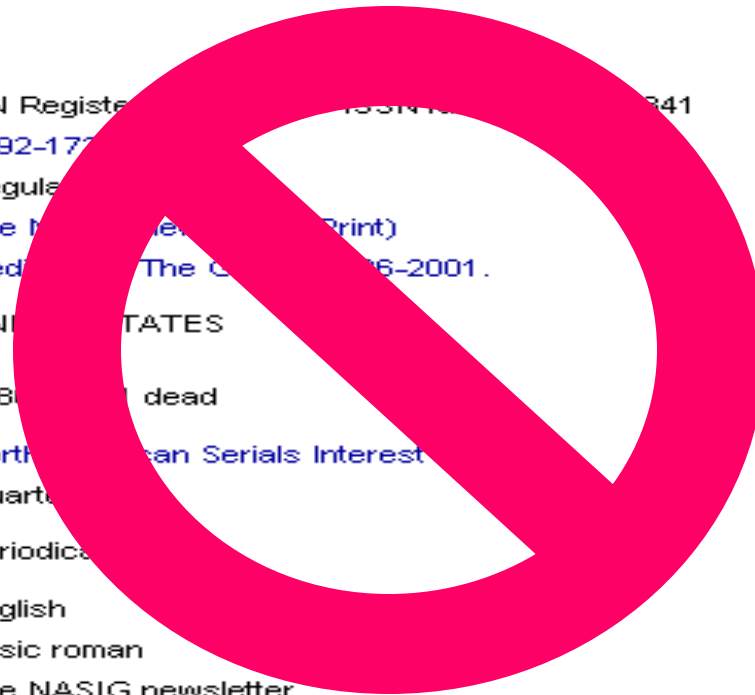
[Labelled](#) | [MARC](#)

Record 2 of 2

You searched ISSN Register for ISSN 0892-1776

ISSN	0892-1776
Medium	Regular (Print)
Key Title	The NASIG newsletter (Print)
Publisher	Medford, The Center for Serials, 1986-2001.
Country of publication	UNITED STATES
Dates of publication	1986- dead
Author	North American Serials Interest Group
Frequency	Quarterly
Type of publication	Periodical
Language	English
Title script	Basic roman
Title proper	The NASIG newsletter
Abbreviated key title	NASIG newsl. (Print)
Dewey classification	051 11
CODEN	NASNE6
Continued by	NASIG newsletter (Online) [ISSN 1542-3417]
ISSN Centre	United State

No separate metadata record for ISSN-L



ISSN 1234-567X (print)
ISSN 0432-7654 (online)
ISSN-L 0432-7654

Journal of Bridge Design & Construction



Vol. 5, no. 6
June, 2008

Embedding ISSN-L or ISSN

- DOI

doi:10.1038/issnl.0028-0826

- OpenURL

http://...&rft.issnl=0028-0826&

- URN

urn:ISSN:0028-0826

Linking ISSN in ISSN Register

- 022 \$I containing the designated ISSN-L added to **all** records in ISSN Register, fall 2008
- As new records enter the Register, the first record's ISSN is **also ISSN-L**
- May not always be the lowest numerically

Free tables on issn.org*

ISSN	ISSN-L
0021-8464	0021-8464
1563-5184	0021-8464
1026-5414	0021-8464

ISSN-L	ISSN	ISSN	ISSN	...
0021-8464	0021-8464	1563-5184	1026-5414	...

* “artist’s conception” files do not look like this



CAUTION:

If incorrect ISSN are in
022 \$a of database records,
matches will fail or incorrect
ISSN-L will be added



xISSN (Web service)

Use this Web service to retrieve a list of International Standard Serial Numbers (ISSNs) associated with a submitted ISSN, based on WorldCat information.

Title history tool

xISSN Web service

The xISSN Web service supplies ISSNs and other information associated with serial publications represented in WorldCat. Submit an ISSN to this service, and it returns a list of related ISSNs and selected metadata. The service is based on WorldCat, the world's largest network of library content and services. The current xISSN database covers [726,089 ISSNs](#).

Ideal for Web-enabled search applications, such as library catalogs and OpenURL Resolvers, and based on associations made in the WorldCat database, xISSN enables an end user to link to information about alternate versions of serial publications.

How xISSN works

ISSNs are associated with each other using librarian-catalogued bibliographic records in WorldCat. ISSNs are related in two different ways: different editions of same serial (such as print and online editions) and historical relationships (ISSN changes that result from title changes, mergers, splits, etc.).

Using the xISSN Web service

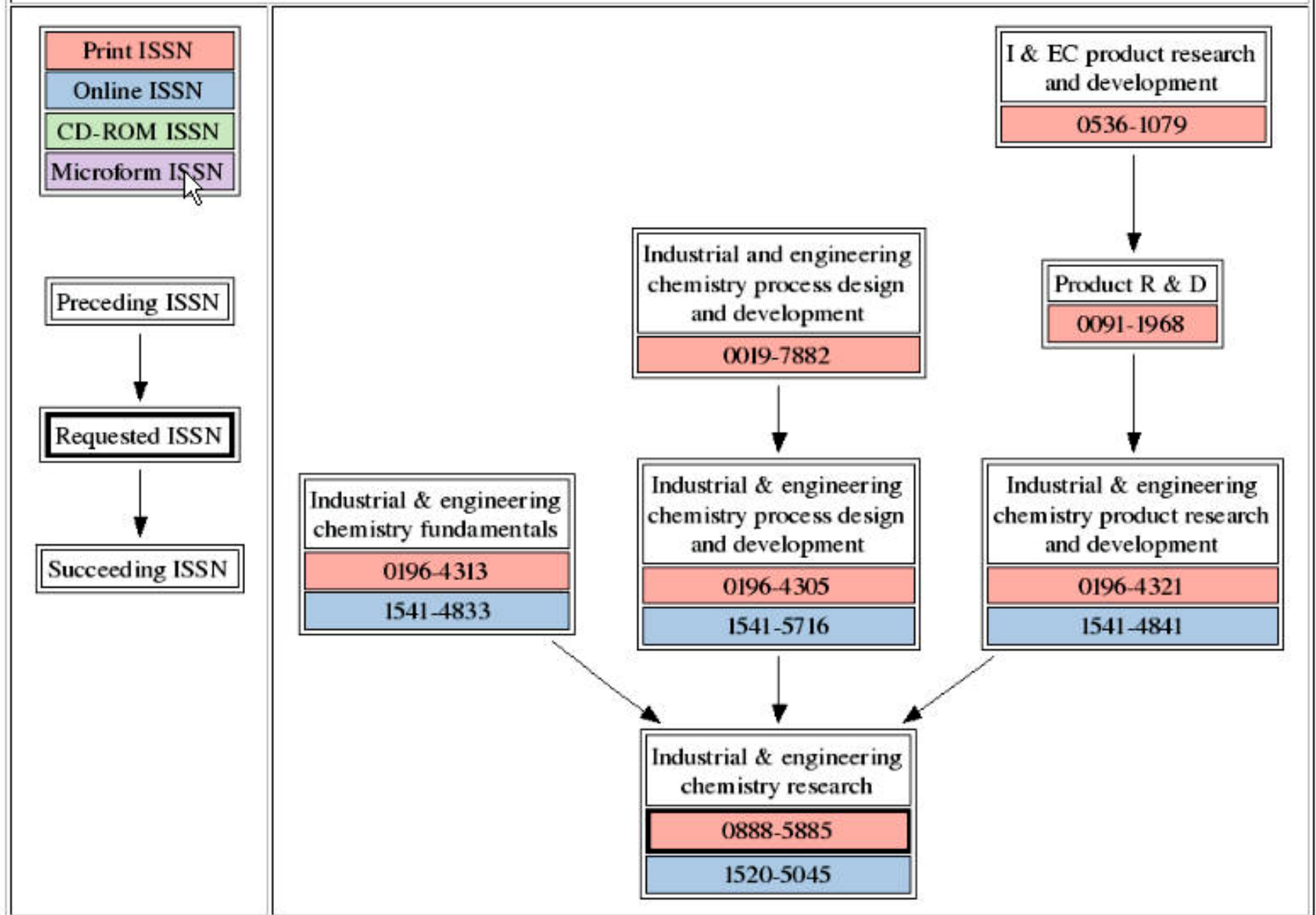
To use the service, you submit an ISSN embedded in a URL to the xISSN server, and the server returns a list of associated ISSNs and relevant metadata. ISSNs for different editions of the same serial are grouped together. An ISSN group may also have historical relationships with other groups.

You may receive associated ISSNs in either XML, XHTML, Python, JSON, or Ruby formats. The xISSN server supports [REST](#)-based requests as well as the [OpenURL](#) and [unAPI](#) protocols.

Key links

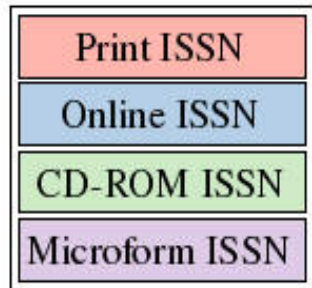
- [How to subscribe](#)
- [Demo](#)
- [Title history tool](#)
- [API](#)
- [Support](#)
- [OCLC NJ Web site](#)

Sample Search History of 0888-5885



Problem Solving Search

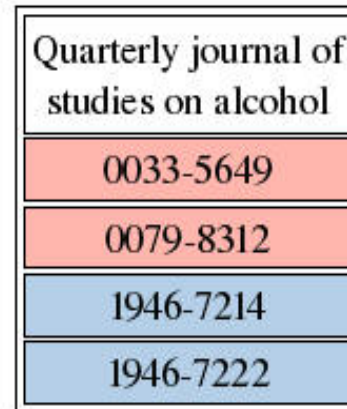
History of 1937-1888



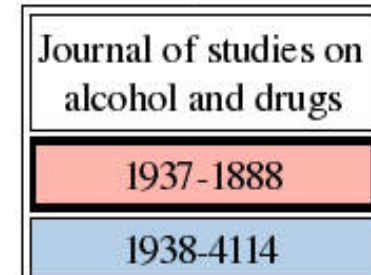
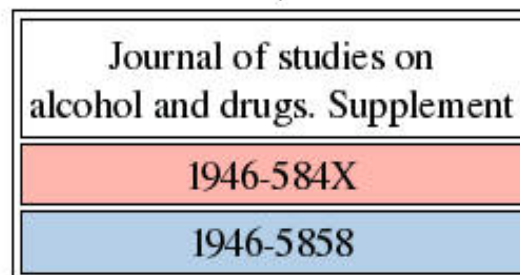
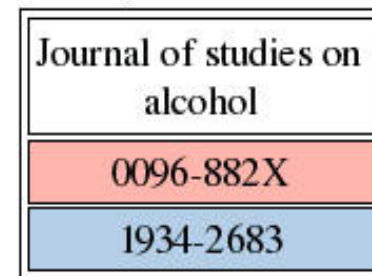
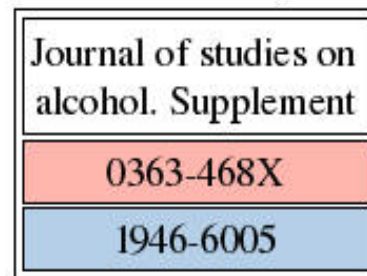
Preceding ISSN

Requested ISSN

Succeeding ISSN



4 ISSN?



Corrected History of 1937-1888

Print ISSN
 Online ISSN
 CD-ROM ISSN
 Microform ISSN

Preceding ISSN

Requested ISSN

Succeeding ISSN

Quarterly journal of studies on alcohol. Supplement
 0079-8312
 1946-7222*

Quarterly journal of studies on alcohol
 0033-5649
 1946-7214*

Journal of studies on alcohol. Supplement
 0363-468X
 1946-6005

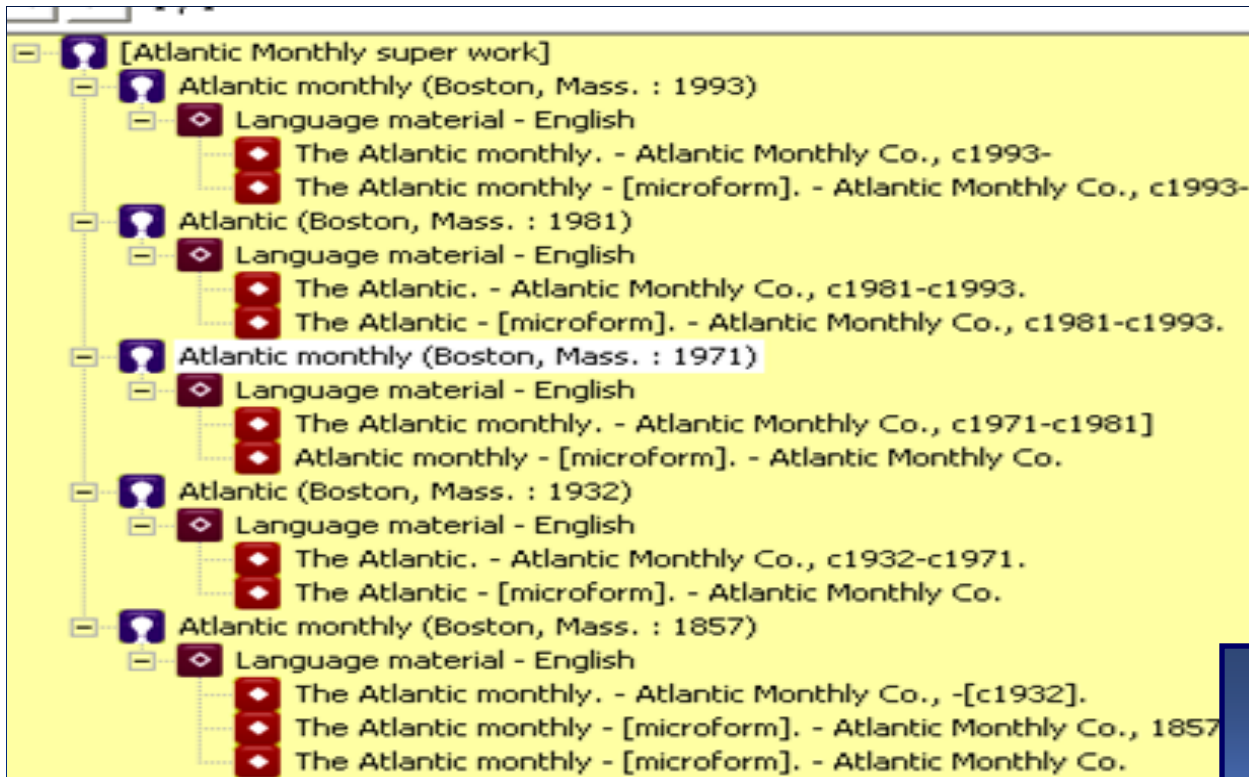
Journal of studies on alcohol
 0096-882X
 1934-2683

Journal of studies on alcohol and drugs. Supplement
 1946-584X *
 1946-5858 *

Journal of studies on alcohol and drugs
 1937-1888
 1938-4114

*Prepub
 Records

VTLS FRBR demo



Full | MARC |

Uniform Title: Atlantic monthly (Boston, Mass. : 1971)
Continues: Atlantic (Boston, Mass. : 1932)
Continued by: Atlantic (Boston, Mass. : 1981)

Unsatisfied Requests: 0
Total Requests: 0

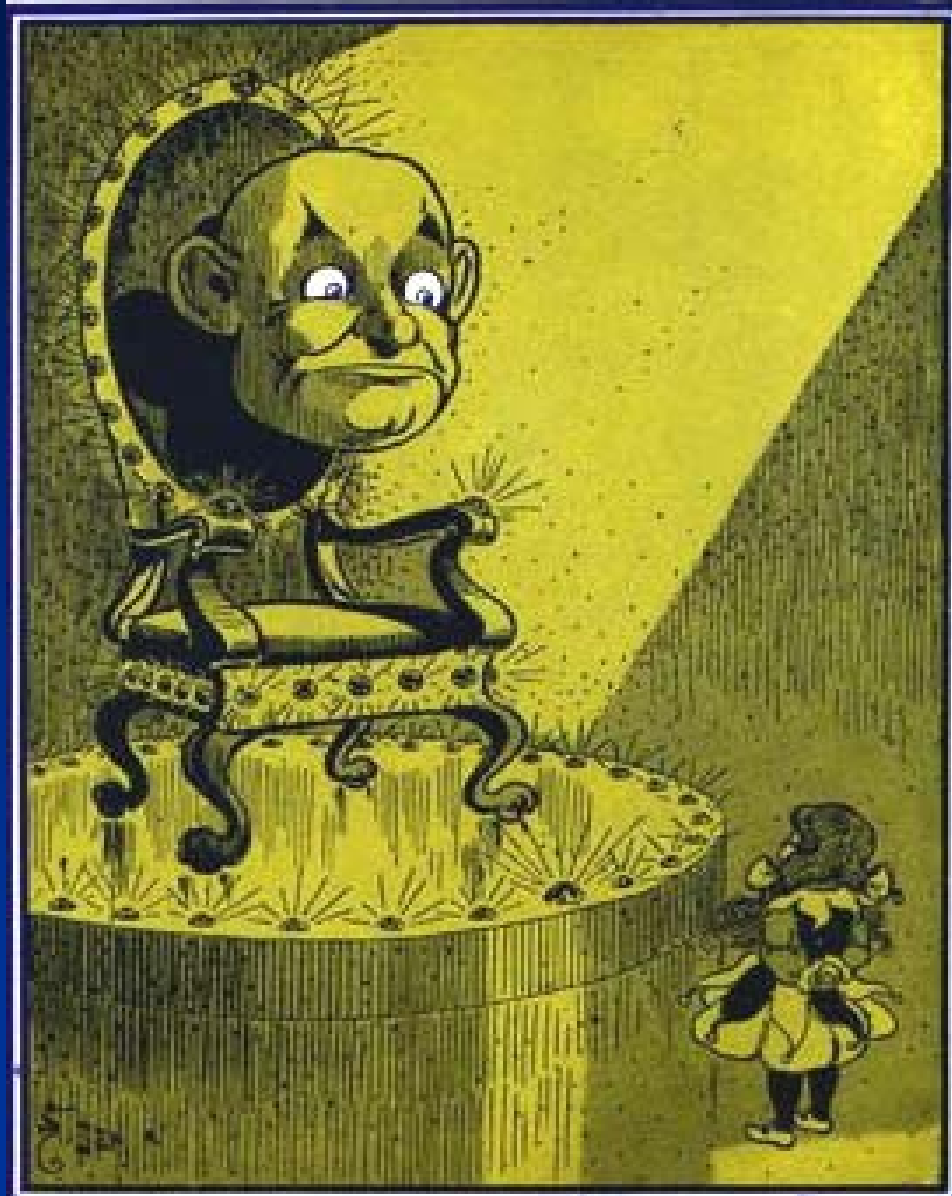
The fully expanded tree shows all of the works, expressions and manifestations

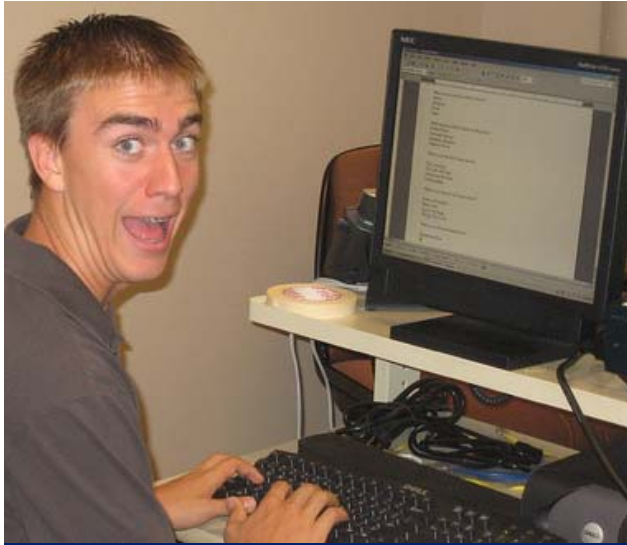
There are 11 manifestations, matching the 11 original separate OCLC bibliographic records

Open URL: Promise & Challenge

**Sufficiently
advanced
technology
is
indistinguishable
from magic.**

Arthur C. Clarke



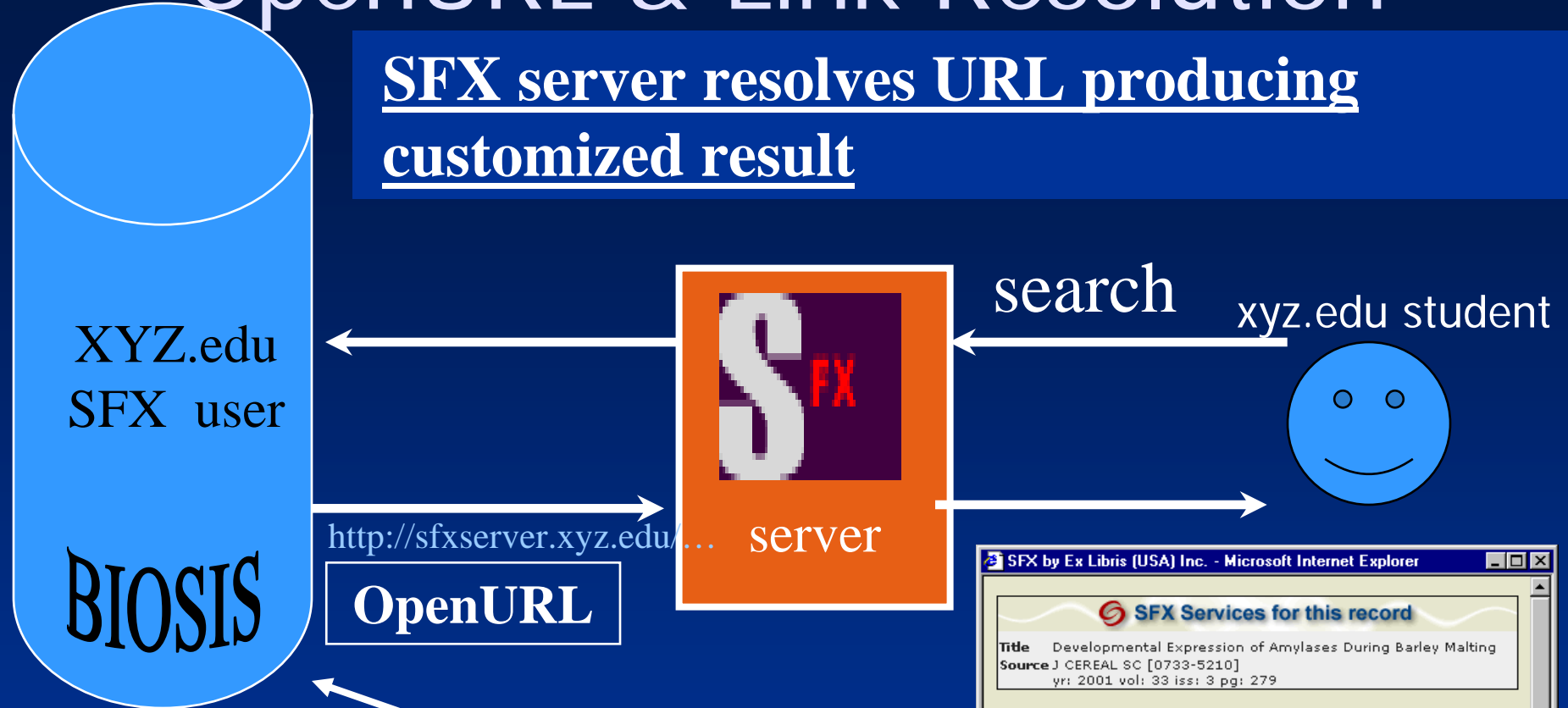


"I want an article"

- Which database to search?
- Where is it in the A – Z list?
- Listed database does not have full text
- Multiple hits: which has the issue?
- The library does not have the article in online form, does it have it in print?

OpenURL & Link Resolution

SFX server resolves URL producing customized result

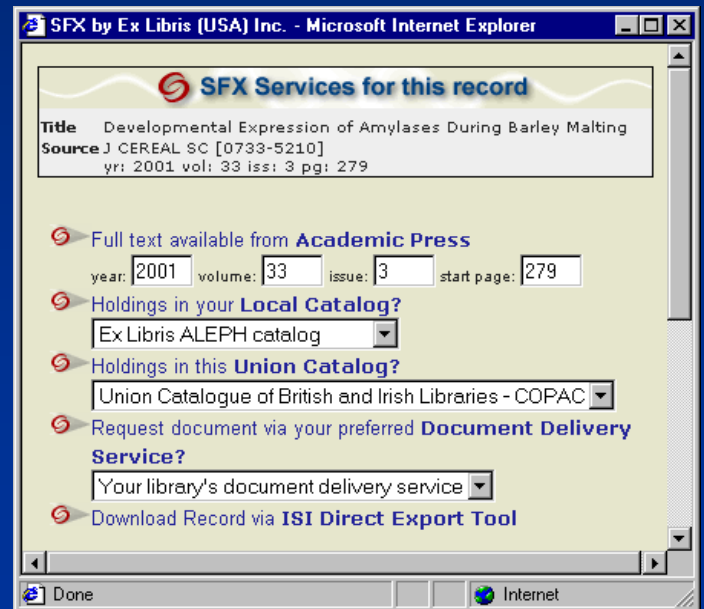


ISSN

Record 15 of 286 in BIOSIS Previews

TI: Developmental expression of amylases during barley malting.
AU: Georg-Kraemer-J-E; Mundstock-E-C; Cavalli-Molina-S {a}
SO: Journal-of-Cereal-Science. [print] May, 2001; 33 (3): 279-288.
IS: 0733-5210
PY: 2001

AB: Amylase activity and qualitative changes in amylase isoenzymes as a function of barley seedling age were investigated in 10 Brazilian barley cultivars....



Based on a slide by Steve Shadle

OpenURL & Link Resolvers

Link resolution software resolves OpenURL “requests” by:

- Identifying the bibliographic elements of an OpenURL, *especially the ISSN*
- Comparing those elements to institution-specific resolution tables
- Identifying the most appropriate “services” to present to a user

Magical! (sometimes...)

- Bad data
- Bad formatting
- Lack of knowledge



KBART to the Rescue!

What is KBART?

- Knowledge Bases and Related Tools
- Joint effort: UKSG + NISO
- Goal: better data for all
 - Data providers
 - Data processors
 - Data presenters
 - **Data users**
- Facilitate data movement along the supply chain

Serials Information Chain

- Publisher
- Aggregator
- Link resolver knowledge base
- A&I service
- E-resource management service
- Library

Whisper Down the Lane



OpenURL Negatives

- Inaccurate data leads to bad links
- Incorrect implementations cause failure in data transfer
- Some vendors are not aware of OpenURL or have poor knowledge; they don't use it

P. McCracken

Education Needed

- KBART: information about OpenURL benefits
- Advocacy
- Instructions on correctly implementing
- Offer contacts/help in implementations

Incorrect Implementations

- Provide help to content providers re what is and is not working
- Provide an opportunity for vendors to grade themselves
- Examples of good OpenURL practices
- Standardize transfer of data along the supply chain

Dirty Data Redux



Credit: The Brownhorse

Solving Inaccurate Data

- Likely the biggest problem
 - Grade/police/shame providers
- Communicate the consequences of
 - False positives
 - False negatives
- Point out sources of good data!

Next Steps for KBART

- Create a report with guidance on
 - Data problems
 - Implementation problems
 - Need for vendor awareness
- Education re the supply chain
- Develop best practices guidelines for moving accurate data along supply chain

Transfer



Best Practices for Titles Moving Between Publishers

- “Transfer,” project of UKSG
- Focus on online issues
- Began 2006
- Code of Practice 2.0, Sept. 2008
- 20 publishers on board, Mar. 2009

<http://www.uksg.org/transfer>

Transferring Publisher: Key responsibilities

- Facilitate effective and rapid transfer of subscriber information to receiving publisher and
- Continued access for customers to journal content
- Facilitate effective and rapid transfer of journal content to receiving publisher

Transferring Publisher: Specifics

- Fulfillment of perpetual access obligations
- Transfer of digital files for born digital and digitized archive content
- Subscription lists
- Transfer of URL domain or provision of link to content
- Communication
- DOI name ownership (ISSN)

Receiving Publisher: Key Responsibilities

- Ensure that content is made available to existing customers on the Effective Transfer Date
- Ensure that customers have uninterrupted access to journal content

Receiving Publisher: Specifics

- Provide access as of Effective Transfer Date or allow Transferring Publisher to provide access
- Honor perpetual access obligations (transferring publisher could do this)
- Communicate to customers and intermediaries timely
- Contact subscribers
- Follow DOI guidelines for transfer of DOI ownership (ISSN)

"Transfer Compliant"

- Organizations that publicly sign up to the TRANSFER Code of Practice via procedures outlined on the UKSG TRANSFER website and who then follow the Code in subsequent journal transfers

TRANSFER Compliant Publishers

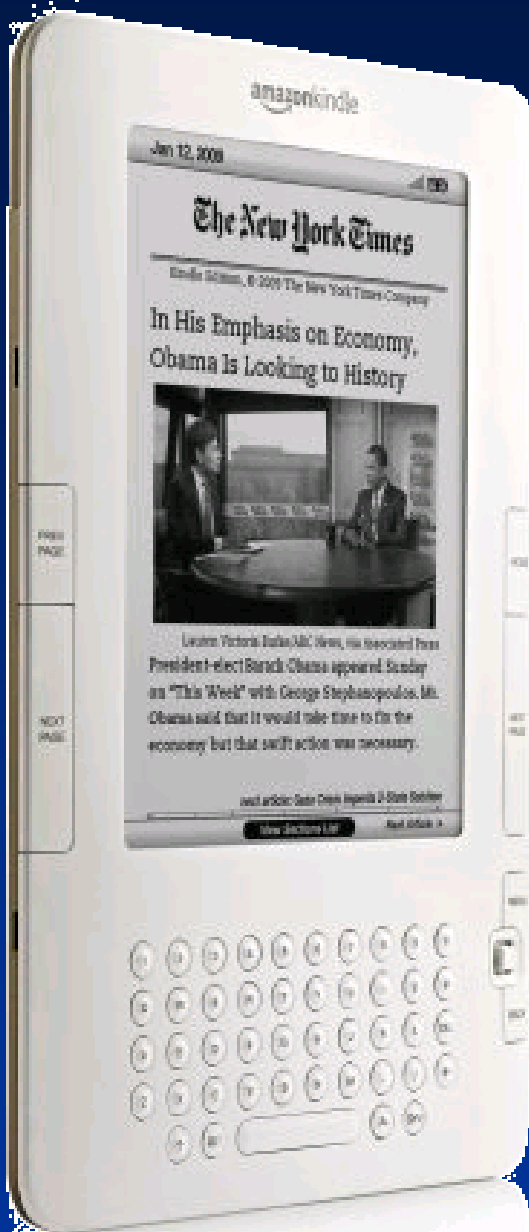
- ALPSP
- American Diabetes Assn.
- Berg Publishers
- BioMed Central
- Co-Action Publishing
- Earthscan
- Emerald Group
- European Respiratory Soc.
- Gud Magazine
- IOP Publishing
- IOS Press
- Nature Publishing Group
- Oxford Journals/Oxford University Press
- Palgrave Macmillan
- Portland Press Ltd.
- Royal Society of Chemistry Publishing
- Rural Sociological Society
- Sage Publications
- Springer Science + Business Media
- Symposium Journals
- Taylor & Francis
- Walter de Gruyter
- Wiley

The Future of Serials?



Serial Branding

- *New York Times vs. Ambler Gazette*
- *Nature vs. Journal of Natural History*
- Promotion and tenure considerations
- Journals infrastructure



Q W E R T Y U I O P
A S D F G H J K L ; ' :
Z X C V B N M , . / ?
[] ^ _ ` ~

"Electronic Ink"



- E Ink Corporation
- EPD—electronic paper display
- Ink that carries a charge
- Thin, lightweight
- Requires no power to maintain the image

Cooperation with Publishers

- Publishers considering future researchers
 - E.g., Christian Science Monitor
 - E.g., McGraw Hill
- Education, sharing of expertise
- Scholarly infrastructure (citations)
- Library tolerance for experimentation
- Library flexibility in rules

Bibliographic Control

- Begin with digitized info from publishers
- Batch processes where hand crafting is done for exceptions, not routine
- More ISSN collaboration with publishers

More
revolution





More communication, collaboration

More automation



DELTA

SELF

Self-Service Check-In
Domestic & International

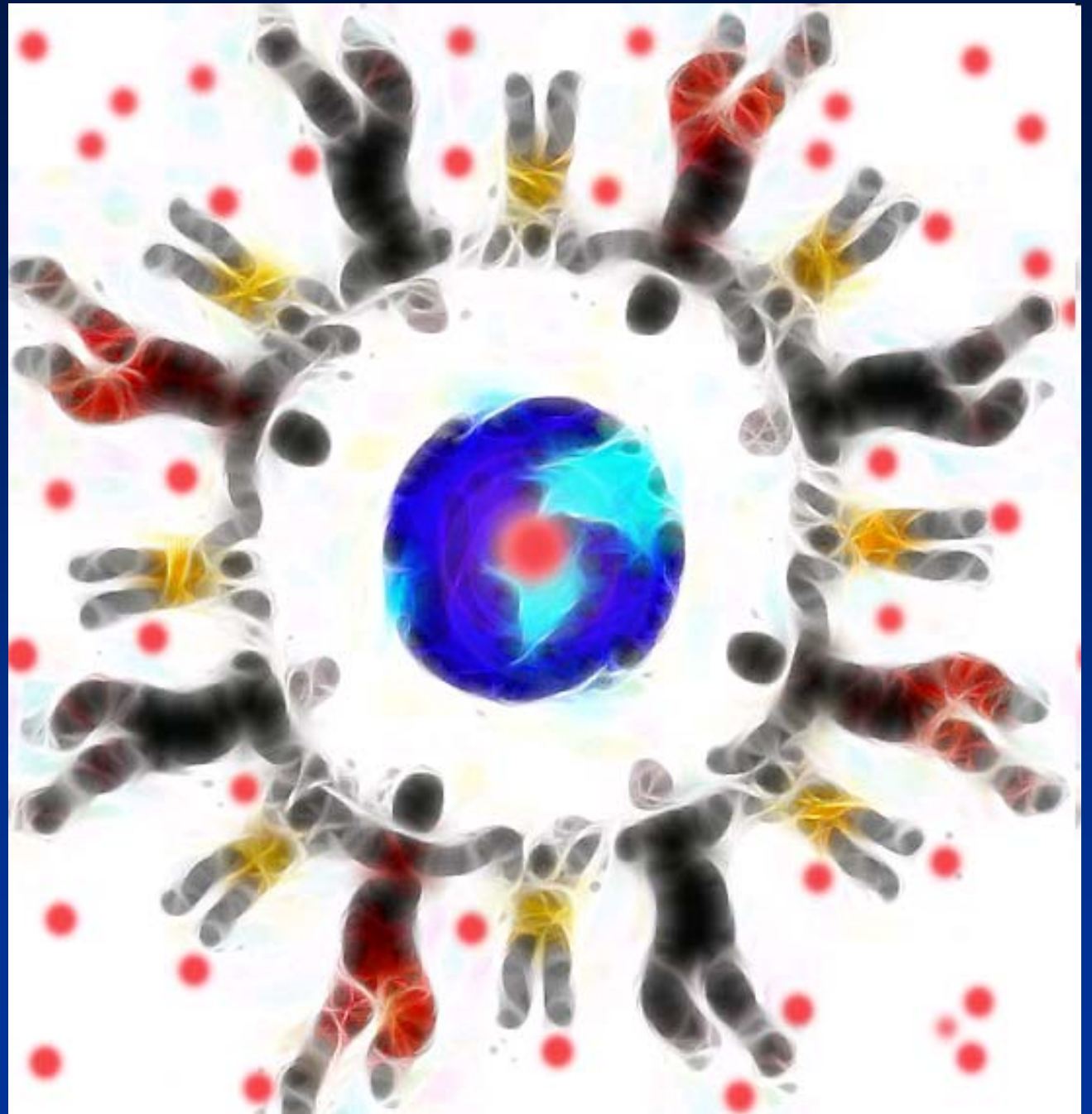


More imagination



We'll
get
by
with a
little help
from our
friends...

Credit:
tkrosevear



Thank you!

rrey@loc.gov