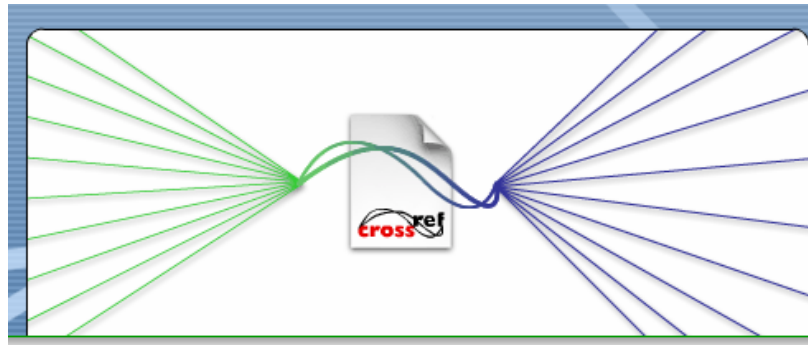


CrossRef Annual Meeting – Boston

Technical Working Group



2 November 2006

Agenda

- 9:00 - 9:20** **Status of the system / new features** **Chuck**
- 9:20 - 9:40** **A DOI's night out** **Tim Pickard** (System admin & support)
- 9:40 - 10:00** **Quality Issues** **Julie Hawks** (Quality coordinator)
- 10:00 -10:30** **Ongoing initiative updates** **Chuck**
multiple resolution, parameter passing, forward linking, simple text query
- 10:30 - 10:45** **Break**
- 10:45 - 11:00** **Parsing references** **Bruce Rosenblum** (CEO, Inera)
- 11:00 -11:45** **New Initiatives**
 DOI Crawler **Jon Stark** (Software development)
 Web Services and OAI-PMH **Chuck**
- 11:45 -12:00** **A peak at the new help documentation** ... **Chuck**
- 12:00 -** **Questions & discussion**
- 12:45** **Lunch**

System status

- System operation has been very stable, availability is > 98%
 - No major software or hardware changes this past year
 - In the process of migrating Oracle to a Linux quad dual core AMD from a SUN quad Sparc IIIi
- Query response time is still well under 1 second
 - Connection timeouts for large (15+) sync queries still a concern
 - Please contact us if your having HTTP connection problems (e.g. if you think our service is down)
- Statistics look good

New features

- Query results can be retrieved in three styles

(And a lesson in metadata morass)

<http://doi.crossref.org/servlet/query?usr=<usr>&pwd=<pwd> &type=q &format=? &qdata=1089-5647|JOURNAL+OF+PHYSICAL+CHEMISTRY+B|Frank+HA|106|8|2083|2002||x|>

[Format= piped](#)

[Format= xsd xml](#)

[Format= unixref](#)

JCiteID	Title	Print ISSN	Elect ISSN	Additional ISSN _s	Publisher Prefix	CatID	AliasID	Primary	
2483	The Journal of Physical Chemistry B	15206106	15205207	00223654,10895647	10.1021	2351	--	<input checked="" type="checkbox"/>	Alt Spell Modify

[Previous Page](#)
[Next Page](#)

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Record 1 of 1

You searched - ISSN: ISSN 15206106

ISSN	1520-6106
Medium	Regular print
Key Title	The journal of physical chemistry. B, Condensed matter, materials, surfaces, interfaces & biophysical
Publisher	Washington, D.C. : American Chemical Society, c1997-
Country of publication	UNITED STATES
Dates of publication	1997 / 9999 current
Author	American Chemical Society.
Frequency	Weekly
Type of publication	Periodical
Language	English
Title script	Basic roman
Title proper	The journal of physical chemistry.
Variant title	Condensed matter, materials, surfaces, interfaces & biophysical
Abbreviated key title	J. phys. chem., B Condens. mater. surf. interfaces biophys.
Dewey classification	540 13
URL	http://pubs.acs.org/journals/jpcbfbk/index.html
Indexed by	[ISSN 0009-2258]
Supplement/Special issue entry	Journal of physical chemistry. B, Supporting information
Additional Physical Form Entry	Journal of physical chemistry. B (Online) [ISSN 1520-5207]
Continues	The journal of physical chemistry. B, Materials, surfaces, interfaces, & biophysical [ISSN 1089-5647]
ISSN Centre	United State
Category	— Register

ISSN	0022-3654
Medium	Regular print
Key Title	Journal of physical chemistry (1952)
Publisher	Easton, Pa. : American Chemical Society, c1952-c1996.
Country of publication	UNITED STATES
Dates of publication	1952 / 1996 dead
Author	American Chemical Society.
Frequency	Weekly
Type of publication	Periodical
Language	English
Title script	Basic roman
Title proper	The journal of physical chemistry.
Abbreviated key title	J. phys. chem. (1952)
Dewey classification	541/.05
CODEN	JPCHAX
URL	http://pubs3.acs.org/acs/journals/toc.page?incoden=jpchax
Indexed by	[ISSN 0009-2258]
Supplement/Special issue entry	Journal of physical chemistry. Supplementary material
Supplement/Special issue entry	Journal of physical chemistry. Supporting information
Additional Physical Form Entry	Journal of physical chemistry (1952. Online) [ISSN 1541-5740]
Continues	Journal of physical & colloid chemistry [ISSN 0092-7023]
Split into	The journal of physical chemistry. A, Molecules, spectroscopy, kinetics, environment, & general theory [ISSN 1089-5639]
Split into	The journal of physical chemistry. B, Materials, surfaces, interfaces, & biophysical [ISSN 1089-5647]
ISSN Centre	United State
Category	- Register

New features

➤ Search all authors

<http://doi.crossref.org/servlet/query?usr=<usr>&pwd=<pwd> &type=q &format=? &qdata=1089-5647|JOURNAL+OF+PHYSICAL+CHEMISTRY+B|Frank+HA|106|8|2083|2002||x|>

Format=xsd xml

```
qdata=1089-5647|
JOURNAL+OF+PHYSICAL+CHEMISTRY+B|
Frank+HA|106|8|100|2002||x|
```

Format=unixref

```
qdata= <query key="x">
  <journal_title>The Journal of Physical Chemistry B</journal_title>
  <author search-all-authors="true">Frank</author>
  <volume>106</volume>
  <issue>8</issue>
  <first_page>100</first_page>
  <year>2002</year>
</query>
```

A DOI's night out **Tim Pickard**
(System admin & support)

Quality Issues **Julie Hawks**
(Quality coordinator)

Updates

➤ Multiple resolution

- Starting to see some adoption using interim page solution

Namespace => http://www.crossref.org/doi_resources_schema/1.0

Schema => http://www.crossref.org/schema/deposit/doi_resources1.0.1.xsd

```
<doi_resources>
  <doi>10.1049/el:20030013</doi>
  <collection>
    <property type="xref:mr:list"/>
    <property type="xref:mr:enable-interim-page"/>
    <item>
      <property type="xref:mr:label">IEE</property>
      <property type="xref:mr:use-prime-url"/>
    </item>
    <item>
      <property type="xref:mr:label">IEEE</property>
      <resource>http://ieeexplore.ieee.org/Ipdocs/epic03/wrapper.htm?arnumber=1182312</resource>
    </item>
  </collection>
</doi_resources>
```

The DOI to which we want to add another URL

Command to use the interim page

Keep the DOI's original URL
(I don't know what it is)

Append this URL

Updates

- Multiple resolution temporary deposit process

crossref.org

DOIs FOR RESEARCH CONTENT

Contact

MEMBERS AREA



multiple resolution deposit

This form is used to upload XML files that contain multiple resolution data for one or more DOIs. After upload, the file will be processed and the Handle records for these DOIs will be modified. You will receive a completion notice via email (to the email address in the XML file).

- ◆ The username and password must be that of a CrossRef account that has metadata upload permission for the DOIs in the XML file
- ◆ All DOIs in the file must be of the same prefix
- ◆ Currently this process will only operate on existing DOIs. Therefore, the DOIs in the XML file must have already been created via the normal CrossRef deposit process. Please use only the dedicated **MR deposit schema**.
- ◆ If you are using interim-page multiple resolution, please be sure that an acceptable template is available for the publication title these DOIs belong to (refer to the **multiple resolution info** page).

XML File Browse...

Username Password

submit



Updates

- Multiple resolution interim page is template driven

Current Links for doi: 10.1049/el:20030013 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.crossref.org/iPage/resolver?doi=10.1049/el:20030013

Customize Links CrossRef CR System Member DB CR Wiki CR MoveType Staff blog CR blog My Yahoo! ISSN IS

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View S

http://oai.crossref.o...andler/?verb=ListSets Member section Current Links for doi: 10.1049/el:200...

The Institution of Engineering and Technology

The Institution of Engineering and Technology is a new institution which has been formed by joining the IEE (Institution of Electrical Engineers) and the IIE (The Institution of Incorporated Engineers).

CMOS exponential function generator
Liu
Electronics Letters (2003), 39(1):1
doi:10.1049/el:20030013

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iPage hosted by CrossRef

Metadata for this DOI

DOIs' original (or primary) URL

Additional URL

Updates

- Parameter passing send arguments from the link source to the target

http://www.crossref.org/02publishers/how_to_faq.html

Link source

```
dx.doi.org/openurl?url_ver=Z39.88-2003
&rft_id=doi:10.5555/unique_doi_060103-01
&rft_dat=cr_pub%3DSource
Publisher%26cr_work%3DSource Journal
Title%26cr_src%3DSRC-NAME
```

WITH PARAMETER PASSING

Target

```
url_ver = Z39.88-2003
rft_id  = doi:10.5555/unique_doi_060103-01
rft_dat = cr_pub%3DSource%20Publisher%...
Nested Parameters
  cr_pub = Source Publisher
  cr_work= source journal title
  cr_src = SRC-NAME
rft_dat = param1%3Done%26param2%3Dtwo
Nested Parameters
  param1 = one
  param2 = two
```



doi>

Registered URL

```
http://www.crossref.org/paramEcho
?param1=one&param2=two
```



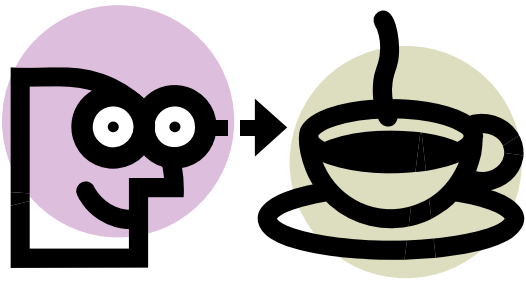
Updates

➤ Forward linking

- # of forward links pending = 36,363,146
of forward links established = 42,267,546
- Dependent on stored query processing
(12,134,984 run in October, 450,247 matched, 3.7%)
- Change being made to expedite large (back-file) deposits which include references: do not evaluate at time of deposit (optional)
- Major outstanding issue: how to notify when metadata changes

➤ Simple text query (parse then query)

- Parse engine continually improved, now supports books
(query process must be updated to leverage book parsing)
- We plan to implement a file upload feature for members
(upload a text file containing just references, BUT, we must be cautious about how special characters get handled)



When we return:

- Parsing references* **Bruce Rosenblum** (CEO, Inera)
- DOI Crawler* **Jon Stark** (Software development)



Agenda

- 10:45 - 11:00** *Parsing references Bruce Rosenblum (CEO, Inera)*
- 11:00 -11:45** *New Initiatives*
DOI Crawler Jon Stark (Software development)
Web Services and OAI-PMH Chuck
- 11:45 -12:00** *A peak at the new help documentation ... Chuck*
- 12:00 -** *Questions & discussion*
- 12:45** *Lunch*

OAI-PMH is a set of commands used to pull metadata from a compliant repository

Verb	Use	Example
Identify	Ask a repository to tell you about itself.	oai.crossref.org/OAIHandler?verb=Identify
ListMetadata Formats	Ask a repository which formats (XML schemas) data is available in. Compliant repositories support Dublin Core.	oai.crossref.org/OAIHandler?verb=ListMetadataFormats
ListSets	Ask a repository to list the hierarchical structure it uses to organize itself	oai.crossref.org/OAIHandler?verb=Identify
ListIdentifiers	Ask a repository to list the identifiers in the whole repository or a particular set	oai.crossref.org/OAIHandler?verb=ListIdentifiers
ListRecords	Ask a repository to return the metadata for all records in the repository or those in a given set	oai.crossref.org/OAIHandler?verb=ListRecords&SetSpec=10.1002:300:1999
GetRecord	Ask the repository for the metadata of a given identifier.	oai.crossref.org/OAIHandler?verb=GetRecord&metadataPrefix=cr_unixml&identifier=info:doi/10.1002/jnr.490010101

OAI-PMH sample responses - Identify

```
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd">
  <responseDate>2006-10-11T20:12:42Z</responseDate>
  <request verb="Identify">http://oai.crossref.org/OAIHandler</request>
- <Identify>
  <repositoryName>crossref.org Repository</repositoryName>
  <baseURL>http://oai.crossref.org/OAIHandler</baseURL>
  <protocolVersion>2.0</protocolVersion>
  <adminEmail>mailto:griffin_gary@yahoo.com</adminEmail>
  <earliestDatestamp>2000-01-01T00:00:00Z</earliestDatestamp>
  <deletedRecord>persistent</deletedRecord>
  <granularity>YYYY-MM-DD</granularity>
  <compression>gzip</compression>
  <compression>deflate</compression>
- <description>
  - <oai-identifier xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai-identifier http://www.openarchives.org/OAI/2.0/oai-identifier.xsd">
    <scheme>oai</scheme>
    <repositoryIdentifier>crossref.org</repositoryIdentifier>
    <delimiter>.</delimiter>
    <sampleIdentifier>info:doi/10.1038/42304</sampleIdentifier>
  </oai-identifier>
</description>
- <description>
  - <toolkit xsi:schemaLocation="http://oai.dlib.vt.edu/OAI/metadata/toolkit http://oai.dlib.vt.edu/OAI/metadata/toolkit.xsd">
    <title>OCLC's OAICat Repository Framework</title>
    - <author>
      <name>Jeffrey A. Young</name>
      <email>jyoung@oclc.org</email>
      <institution>OCLC</institution>
    </author>
    <version>1.5.46</version>
    <toolkitIcon>http://alcm.e.oclc.org/oaicat/oaicat_icon.gif</toolkitIcon>
    <URL>http://www.oclc.org/research/software/oai/cat.shtrn</URL>
  </toolkit>
</description>
```

ListSets

```

<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/oai.xsd" xmlns:oai="http://www.openarchives.org/OAI/2.0/">
  <responseDate>2006-10-11T20:19:23Z</responseDate>
  <request verb="ListSets">http://oai.crossref.org/OAI?verb=ListSets
- <ListSets>
  - <set>
    <setSpec>10.1001</setSpec>
    <setName>American Medical Association</setName>
  </set>
  - <set>
    <setSpec>10.1002</setSpec>
    <setName>John Wiley & Sons</setName>
  </set>
  - <set>
    <setSpec>10.1006</setSpec>
    <setName>Elsevier - Academic Press</setName>
  </set>
  - <set>
    <setSpec>10.1007</setSpec>
    <setName>Springer-Verlag</setName>
  </set>
  - <set>
    <setSpec>10.1016</setSpec>
    <setName>Elsevier</setName>
  </set>

```

ListSets&resumptionToken=1160597811347!698!205002

```

<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/oai.xsd" xmlns:oai="http://www.openarchives.org/OAI/2.0/">
  <responseDate>2006-10-11T20:19:23Z</responseDate>
  <request resumptionToken="1160597811347!698!205002" verb="ListSets">http://oai.crossref.org/OAI?verb=ListSets&resumptionToken=1160597811347!698!205002
- <ListSets>
  - <set>
    <setSpec>10.1002:90</setSpec>
    <setName>Pediatric Pulmonology</setName>
  </set>
  - <set>
    <setSpec>10.1002:91</setSpec>
    <setName>Seminars in Surgical Oncology</setName>
  </set>
  - <set>
    <setSpec>10.1002:92</setSpec>
    <setName>
      Electronics and Communications in Japan (Part I Communications)
    </setName>
  </set>
  - <set>
    <setSpec>10.1002:93</setSpec>
    <setName>
      Electronics and Communications in Japan (Part II Electronics)
    </setName>
  </set>

```

OAI-PMH sample response

```
verb=ListIdentifiers&metadataPrefix=cr_unixml&set=10.1002:297:2004
```

```
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.ope
  <responseDate>2006-10-12T12:44:54Z</responseDate>
  <request metadataPrefix="cr_unixml" verb="ListIdentifiers" set="10.1002:297:2004">:
- <ListIdentifiers>
  - <header>
    <identifier>info:doi/10.1002/agr.20026</identifier>
    <datestamp>2006-05-27</datestamp>
    <setSpec>10.1002</setSpec>
    <setSpec>10.1002:297</setSpec>
    <setSpec>10.1002:297:2004</setSpec>
  </header>
  - <header>
    <identifier>info:doi/10.1002/agr.20071</identifier>
    <datestamp>2006-05-27</datestamp>
    <setSpec>10.1002</setSpec>
    <setSpec>10.1002:297</setSpec>
    <setSpec>10.1002:297:2004</setSpec>
  </header>
  - <header>
    <identifier>info:doi/10.1002/agr.20022</identifier>
    <datestamp>2006-05-27</datestamp>
    <setSpec>10.1002</setSpec>
    <setSpec>10.1002:297</setSpec>
    <setSpec>10.1002:297:2004</setSpec>
  </header>
  - <header>
    <identifier>info:doi/10.1002/agr.20021</identifier>
    <datestamp>2006-05-27</datestamp>
    <setSpec>10.1002</setSpec>
    <setSpec>10.1002:297</setSpec>
    <setSpec>10.1002:297:2004</setSpec>
  </header>
  - <header>
    <identifier>info:doi/10.1002/agr.20027</identifier>
```

And lastly:

A peak at the new help documentation ... Chuck