



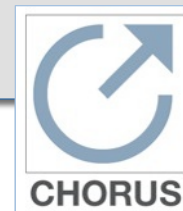
Clearinghouse for the **Open Research** of the United States

A not-for-profit **Publisher-Agency Partnership**  
Providing Public Access to the Results of  
Agency Sponsored Research

**Revealing the Pilot - 8 October 2013**

**Howard Ratner**, Director of Development, CHORUS

2013 STM International Frankfurt Conference





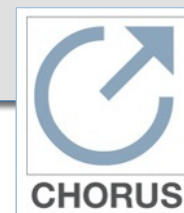
Clearinghouse for the **Open Research** of the United States

A broad coalition of scholarly journal publishers formed to develop, implement and steward a partnership with the federal research funders for providing public access to the peer review publications that report on federally-funded research.

- Evolved from an ad-hoc group of publishers who initiated partnership discussions with several agencies in Spring 2011
- Incorporated as a not-for-profit entity - CHOR Inc. - on October 1, 2013
- Will be applying for US IRS 501(c)(3) tax-exempt status

#### Goals:

- Fully **meet all requirements** of the February 22, 2013 OSTP memo
- **Leverage existing infrastructure** and investment of the agencies and publishers
- **Preserve agency funds** for mission critical activities/programs
- Provide for **international scalability**





## **Building On A Tested Model for the Proposed Partnership**

### **FundRef:**

A methodology for identifying articles reporting on agency funded research was launched in May 2013 by CrossRef after completion of a pilot involving DOE, NSF, NASA, Wellcome Trust and seven of the partner publishers

This pilot project addressed article identification by funding agencies; it is now a live service as of May 2013





Clearinghouse for the **Open Research** of the United States

# Personas / Stakeholders



# Alan the Agency Department Head (e.g., DOE, NSF, USAID)

Wants to...

- meet OSTP guidelines/mandate
- measure grantee and agency compliance with guidelines/mandate
- show how his agency's investments are having impact (ROI)
- know who his agency is funding
- have access to or be fed reporting information at agreed upon intervals
- provide access to the best available version (BAV\*) of articles resulting from agency funding for their constituency
- be able to preserve the content
- integrate information from publisher systems with their own internal systems (via APIs)
- be able to text and data mine the content
- avoid administrative burden to grantees/rewardees
- ...

\* BAV = Best Available Version – accepted manuscript or version of record



# Rachel the Researcher / Principal Investigator

Wants to ...

- obtain funding for her research
- meet agency guidelines
- know the sources of funding in her area of research
- have access to best available version (BAV\*) of content in her research area
- extract metadata and entities by text and data mining the content
- get recognition for her research
- upload information into a system once and be used by many
- avoid extra administrative work
- ...

\*BAV = Best Available Version – accepted manuscript or version of record

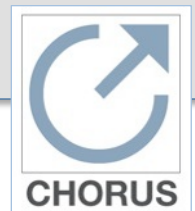


# Paul the Publisher

Wants to ...

- help authors and agencies meet agency and government guidelines
- offer access to best available version (BAV\*) of their content
- provide persistent access to his content
- sustain his business model
- get recognition by scholarly research community for contribution as a publisher
- know what institutions are publishing research
- attract best authors, editors, best societies
- attract eyeballs and clicks to his website(s)
- develop new services
- know who funded the research for articles published
- avoid extra administrative work
- ...

\*BAV = Best Available Version – accepted manuscript or version of record



# Peter the Public

Wants to ...

- have access to best available version (BAV\*) of content to research a problem he had in his their daily life
- see what the government is funding
- learn the impact of specific agency grants
- understand the latest developments in science
- understand what he is seeing by being given context and guidance
- have content connected to learning tools

\* BAV = Best Available Version – accepted manuscript or version of record

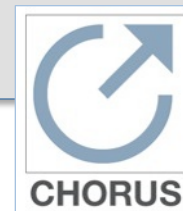




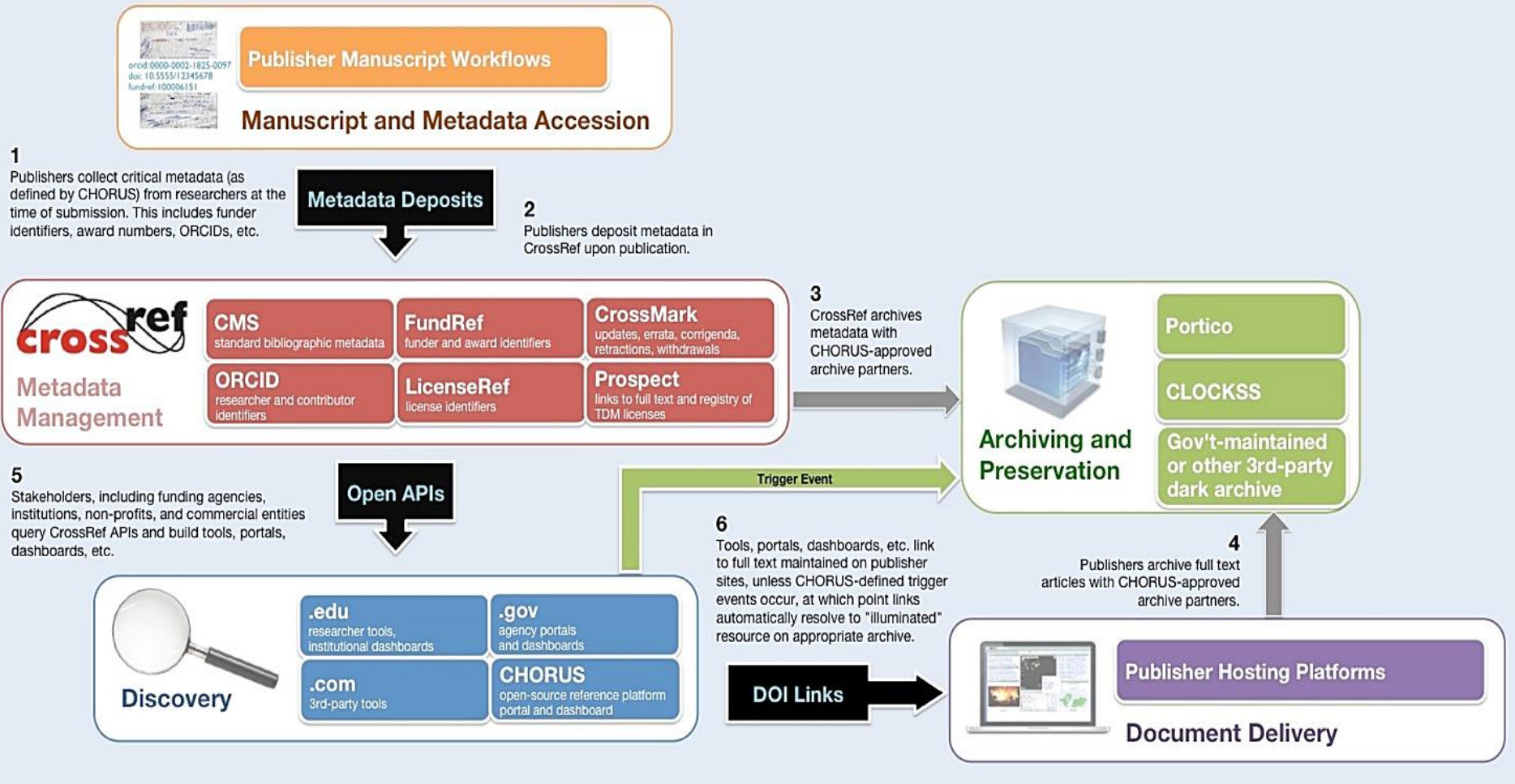


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# CHORUS Design & Services



# CHORUS Conceptual Design



# Service 1. Key Performance Indicators Dashboard (website & API)

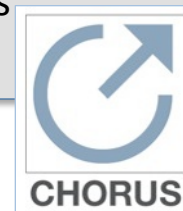
System for monitoring and tracking publisher contributions to the CHORUS system

What:

- #/% of content (i.e., articles, conference proceedings, books) from agency funded research
- #/% of articles from agency funded research per year
- #/% licenses registered for those articles
- % of articles from a publisher is publically accessible
- % of articles archived
- % of articles have basic FundRef metadata

Future:

- # ORCIDs from agency funded research
- # affiliation from agency funded research
- Passed audit (government agency, independent, etc.)
- alert/report based on compliance criteria at agreed intervals
- alert/report based on actual access (ping) vs stated license at agreed intervals



# Pilot Estimates

## Summary

### Today's KPIs

1,300

publications to date, where:

600

are acceptable (conform to all criteria)

1,200

have a locatable full text

1,200

have an agreeable license

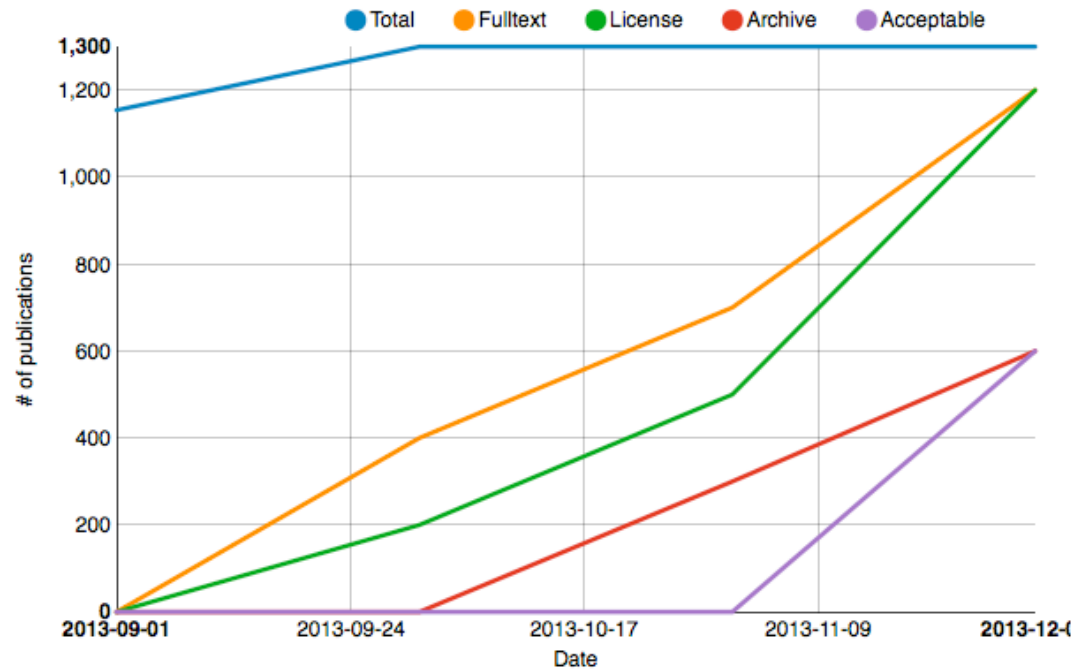
600

have a suitable archive arrangement



# Deposits  
funded by  
US DOE

### KPI History

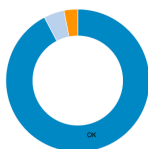


## Breakdown

### Agreeable License

OK Unknown Not OK

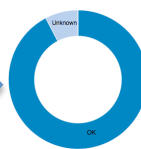
# Records  
having DOE  
approved  
licenses



### Locatable Fulltext

OK Unknown Not OK

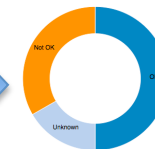
Content tested  
for public  
accessibility



### Suitable Archive Arrangement

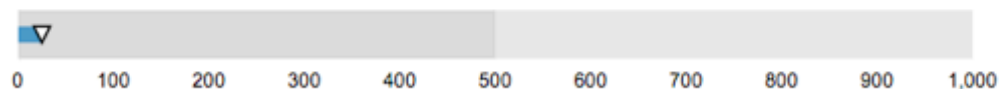
OK Unknown Not OK

# Deposits made  
to dark archives  
approved by  
US DOE



# Publisher FundRef Records

Institute of Electrical & Electronics  
Engineers (IEEE)



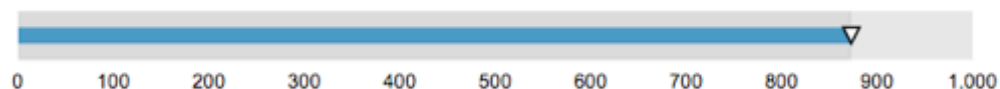
Wiley-Blackwell



Elsevier BV



American Institute of Physics (AIP)



Live CHORUS DOE dashboard:

<http://dashboard.chorusaccess.org/usdoe>

# Service 2. Discovery Service (website & API)

Discovery service for content resulting from agency-funded research. Agencies can use API to feed their own portals. CHORUS website can be used by end users. Customized versions of CHORUS website can be created for agencies.

What:

- enables user to search across bibliographic metadata
- links to publisher site (BAV = AM or VOR)
- download list of results in CSV for analysis
- facet (filter) by sub-organization
- facet (filter) by parent organization
- facet (filter) by content type (e.g., book, journal, dataset, conf proceeding, component)
- facet (filter) by year of publication
- facet (filter) by subject category (e.g., physics, astronomy, ...)
- facet (filter) by year of publication
- facet (filter) by publisher
- cite any result using Citation Style Language (CSL) defined format

powered by



Future

- facet (filter) by author/ORCID (to come)
- add to ORCID profile
- import results into reference manager software (via COinS)
- see if result has been cited by patents (in progress)
- number of times result is cited (CrossRef Cited By Service/Scopus/Web of Knowledge)
- service open to public





Q us department of e

U.S. Department of Education United States

U.S. Department of Energy United States





U.S. Department of Energy

☐ Include funding from sub-organizations

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Nuclear Facility Operations, Office of Nuclear Energy

Clean Coal, Office of Fossil Energy

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Biomass Program, Office of Energy Efficiency and Renewable Energy

Office of Space and Defense Power Systems, Office of Nuclear Energy

Energy Policy, Office of General Counsel

SORT BY: **RELEVANCE** PUBLICATION YEAR

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PAGE 1 OF 1,156 RESULTS

## The effect of composition on pressure-induced devitrification in metallic glasses

**Journal Article** published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **171905**

Research funded by National Science Foundation (EAR 06-49658, EAR 10-43050, EAR-0622171) | U.S. Department of Energy (DE-AC02-05CH11231, DE-AC02-06CH11357, DE-FG02-94ER14466, DE-FG02-99ER45775, DE-NA0001974, DE-SC0001057, DOE-BES)

Authors: Qiaoshi Zeng, Wendy L. Mao, Hongwei Sheng, Zhidan Zeng, Qingyang Hu, Yue Meng, Hongbo Lou, Fang Peng, Wenge Yang, Stanislav V. Sinogeikin, Jian-Zhong Jiang

<http://dx.doi.org/10.1063/1.4803539> [Actions](#)

## Magnetoelectric coupling at the EuO/BaTiO<sub>3</sub> interface

**Journal Article** published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **172402**

Research funded by National Science Foundation (0820521) | Army Research Office (W911NF-10-1-0362) | U.S. Department of Energy (DE-SC0004876)

Authors: S. Cao, P. Liu, J. Tang, H. Lu, C.-W. Bark, S. Ryu, C. B. Eom, A. Gruverman, P. A. Dowben

<http://dx.doi.org/10.1063/1.4803492> [Actions](#)

## Spectrally and time resolved photoluminescence analysis of the CdS/CdTe interface in thin-film photovoltaic solar cells

**Journal Article** published **2013** in **Applied Physics Letters** volume **102** issue **17** on page **173902**



☒ Molecular Biology (49)☐ Structural Biology (32)☐ Cell Biology (7)☐ Biochemistry (6)☐ Clinical Biochemistry (4)☐ Drug Discovery (4)☐ Molecular Medicine (4)☐ Pharmacology (4)☐ Analytical Chemistry (1)☐ Biophysics (1)

## TYPE

☐ Journal Article (49)

## YEAR

☐ 2010 (32)☐ 2011 (13)☐ 2013 (2)☐ 2009 (1)☐ 2012 (1)

## PUBLICATION

☐ Structure (32)☐ Molecular Cell (6)☐ Chemistry & Biology (4)SORT BY: **RELEVANCE** PUBLICATION YEAR[DOWNLOAD AS CSV](#)

PAGE 1 OF 49 RESULTS

## Manipulating single annealed polyelectrolyte under alternating current electric fields: Collapse versus accumulation

Journal Article published **2012** in **Biomicrofluidics** volume **6** issue **2** on page **024116**

Research funded by National Science Foundation (CMMI-1129821) | U.S. Department of Energy (DE-FG02-07ER46390)

Authors: Shengqin Wang, Yingxi Zhu

<http://dx.doi.org/10.1063/1.4718998> Actions

## Structure of a Virulence Regulatory Factor CvfB Reveals a Novel Winged Helix RNA Binding Module

Journal Article published **Mar 2010** in **Structure** volume **18** issue **4** on pages **537 to 547**

Research funded by U.S. Department of Energy | National Institutes of Health (U54 GM074898) | Genome Pharmaceuticals Institute Co., Ltd. (Tokyo, Japan) | Grant-In-Aid for Scientific Research (Japan) (21022015, 20790057, 20390021) | National Institute of Biomedical Innovation (Japan)

Authors: Yasuhiko Matsumoto, Qingping Xu, Shinya Miyazaki, Chikara Kaito, Carol L. Farr, Herbert L. Axelrod, Hsiu-Ju Chiu, Heath E. Klock, Mark W. Knuth, Mitchell D. Miller, Marc-André Elsiger, Ashley M. Deacon, Adam Godzik, Scott A. Lesle ...

Other IDs: S0969212610000997

<http://dx.doi.org/10.1016/j.str.2010.02.007> Actions

## Manipulating single annealed polyelectrolyte under alternating current electric fields: Collapse versus accumulation

Shengqin Wang and Yingxi Zhu

Department of Chemical and Biomolecular Engineering, University of Notre Dame, Notre Dame, Indiana 46556, USA

View Map

(Received 9 March 2012; accepted 17 April 2012; published online 1 May 2012)

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Abstract

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Effective manipulation and understanding of the structural and dynamic behaviors of a single polyelectrolyte (PE) under alternating current (AC) electric fields are of great scientific and technological importance because of its intimate relevance to emerging bionanotechnology. In this work, we employ fluorescence correlation spectroscopy (FCS) to study the conformational and AC-electrokinetic behaviors of a model annealed PE, poly(2-vinyl pyridine) (P2VP) under both spatially uniform and non-uniform AC fields at a single molecule level. Under spatially uniform AC-fields, we observe a gradual and continuous coil-to-globule conformational transition (CGT) of single P2VP at varied AC-frequency when a critical AC-field strength is exceeded, in contrast to the pH-induced abrupt CGT in the absence of AC-fields. On the contrary, under spatially non-uniform AC-fields, we observe field-driven net flow and accumulation of P2VP near high AC-field

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## KEYWORDS, PACS, and IPC

## Keywords

annealing, bioelectric potentials, electrophoresis, fluorescence, fluorescence spectroscopy, molecular biophysics, molecular configurations, osmosis, pH, polymer electrolytes

## PACS

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## Structure of a Virulence Regulatory Factor CvfB Reveals a Novel Winged Helix RNA Binding Module



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Structure, Volume 18, Issue 4, 537-547, 14 March 2010

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10.1016/j.str.2010.02.007

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### Authors

Yasuhiko Matsumoto, Qingping Xu, Shinya Miyazaki, Chikara Kaito, Carol L. Farr, Herbert L. Axelrod, Hsiu-Ju Chiu, Heath E. Klock, Mark W. Knuth, Mitchell D. Miller, Marc-André Elsliger, Ashley M. Deacon, Adam Godzik, Scott A. Lesley, Kazuhisa Sekimizu, Ian A. Wilson [See Affiliations](#)

### Highlights

- CvfB is an RNA binding protein involved in bacterial virulence
- CvfB consists of three consecutive S1 domains and a C-terminal winged helix (WH) domain
- The WH domain and the third S1 domain are involved in cooperative binding of RNA
- WH contains a novel nucleic acid recognition motif

### Summary

CvfB is a conserved regulatory protein important for the virulence of *Staphylococcus aureus*. We show here that CvfB binds RNA. The crystal

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## Structure Article

# Structure of a Virulence Regulatory Factor CvfB Reveals a Novel Winged Helix RNA Binding Module

Yasuhiko Matsumoto,<sup>1,8</sup> Qingping Xu,<sup>2,3,8</sup> Shinya Miyazaki,<sup>1</sup> Chikara Kaito,<sup>1</sup> Carol L. Farr,<sup>2,4</sup> Herbert L. Axelrod,<sup>2,3</sup> Hsiu-Ju Chiu,<sup>2,3</sup> Heath E. Klock,<sup>2,5</sup> Mark W. Knuth,<sup>2,5</sup> Mitchell D. Miller,<sup>2,3</sup> Marc-André Elsliger,<sup>2,4</sup> Ashley M. Deacon,<sup>2,3</sup> Adam Godzik,<sup>2,6,7</sup> Scott A. Lesley,<sup>2,4,5</sup> Kazuhisa Sekimizu,<sup>1,\*</sup> and Ian A. Wilson<sup>2,4,\*</sup>

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<sup>2</sup>Joint Center for Structural Genomics

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<sup>4</sup>Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA 92037, USA

<sup>5</sup>Protein Sciences Department, Genomics Institute of the Novartis Research Foundation, San Diego, CA 92121, USA

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<sup>8</sup>These authors contributed equally to this work

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DOI 10.1016/j.str.2010.02.007

### SUMMARY

CvfB is a conserved regulatory protein important for

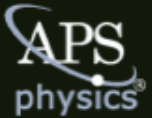
repression of the *spa* gene, encoding protein A, a cell wall protein in *S. aureus* (Matsumoto et al., 2007). Furthermore, *cvfB* also contributes to the production of a protease and nuclease via

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**Phys. Rev. Lett. 107, 101601 (2011) [4 pages]**

## Anisotropic $N=4$ Super-Yang-Mills Plasma and Its Instabilities

**Abstract**

[References](#)

[Citing Articles \(19\)](#)

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David Mateos<sup>1,2</sup> and Diego Trancanelli<sup>3,4</sup>

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<sup>2</sup>*Departament de Física Fonamental & Institut de Ciències del Cosmos (ICC), Universitat de Barcelona, Martí i Franquès 1, E-08028 Barcelona, Spain*

<sup>3</sup>*Department of Physics, University of California, Santa Barbara, California 93106, USA*

<sup>4</sup>*Department of Physics, University of Wisconsin, Madison, Wisconsin 53706, USA*

Received 6 June 2011; published 30 August 2011



**Article Available via CHORUS Pilot**

[Download Accepted Manuscript](#)



We present a type-IIB supergravity solution dual to a spatially anisotropic finite-temperature  $N=4$  super-Yang-Mills plasma. The solution is static and completely regular. The full geometry can be viewed as a renormalization group flow from an ultraviolet anti-de Sitter geometry to an infrared

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<http://dx.doi.org/10.1103/PhysRevLett.107.101601>

# API Integration

## DOE's PAGES Example

Public Access Gateway for Energy and Science

**(PAGES):** *(courtesy of W. Warnick, DOE-OSTI)*



- Objective to provide public access to the “best available version” of a DOE-affiliated publication (q.v. the publisher’s Version of Record (VoR) if it is available).
- PAGES will ingest CHORUS metadata via API and will link to publishers best available version (the VoR or the Accepted Manuscript).
- CHORUS will allow full-text indexing of articles via API to enhance PAGES search precision.
- FundRef – will enable agencies and CHORUS to accurately identify agency-specific publications and monitor public access compliance



# API Integration with Agency Portals

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DEPARTMENT OF ENERGY  
**PAGES** BETA

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zhang

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Basic Search in use ... see the [FAQ](#) for tips on using search types

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Total Results858

Page 1 of 86

Filtered Results

FILTER RESULTS

Filter by Author

SAVE RESULTS

Export these results to Excel

1. [Simple Cloning via Direct Transformation of PCR Product \(DNA Multimer\) to Escherichia coli and Bacillus subtilis](#)

by You, Chun; **Zhang**, Xiao-Zhou; **Zhang**, Y.-H. Percival (Mar. 2012)

*Applied and Environmental Microbiology*

We developed a general restriction enzyme-free and ligase-free method for subcloning up to three DNA fragments into any location of a plasmid. The DNA multimer generated by prolonged overlap extension PCR was directly transformed in Escherichia coli [e.g., TOP10, DH5α, JM109, and BL21(DE3)] and Bacillus subtilis for obtaining chimeric plasmids.

2. [Chromium\(0\) Nanoparticles as Effective Catalyst for the Conversion of Glucose into 5-Hydroxymethylfurfural](#)

by He, Jianghua; **Zhang**, Yuetao; Chen, Eugene Y.-X. (Jan. 2013)

*ChemSusChem*

It's nano: Small and uniform chromium nanoparticles, either preformed or generated in situ, effectively catalyze the conversion of glucose into 5-hydroxymethyl furfural. The results compare favorably with those achieved by using a catalyst system based on divalent CrCl<sub>2</sub> in ionic liquids (ILs). In addition, the chromium nanoparticles are found in the CrCl<sub>2</sub>/IL system, and the implications of their presence in that system is investigated.

# Service 3. Text Mining Using CrossRef's Prospect Service

## The Issue

- Researchers are increasingly interested in text and data mining (TDM) published scholarly content.
- Both Researchers and Publishers find it impractical to negotiate multiple bilateral agreements.
- All would benefit from technical standards to enable TDM (APIs and data representations).

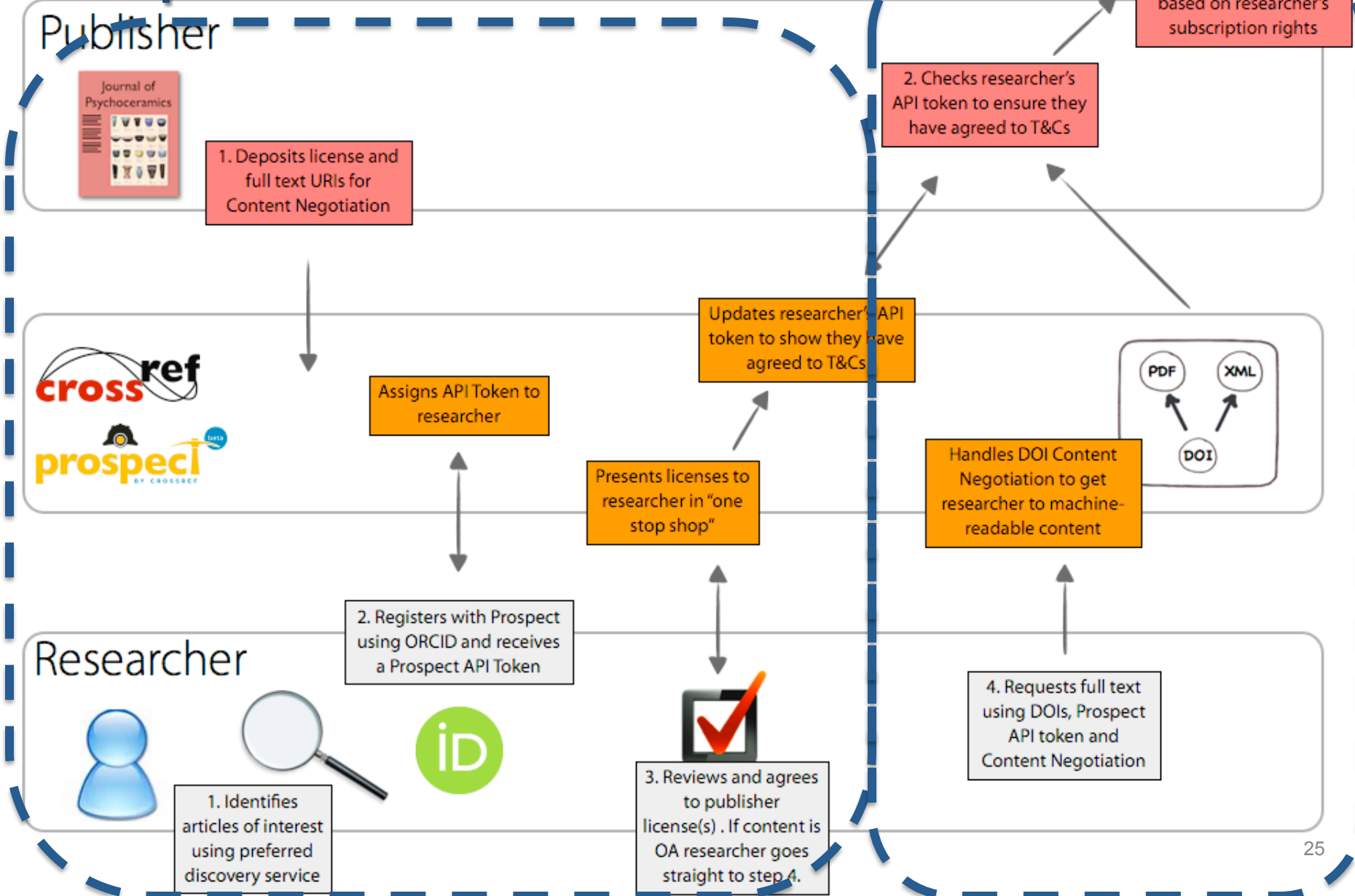
## The Idea

- CrossRef's Prospect service provides:
  - Common API  
used by researchers to access the full text of content identified by CrossRef DOIs across publisher sites regardless of their business model.
  - License Registry
    - transparently shows what terms apply
    - provides “click-through” agreement of TDM licenses if needed





# Service 3. Text Mining using CrossRef's Prospect Service



# Service 4. Digital Preservation with Agency Controlled Triggers

The STM publishing and library communities have collaborated for nearly two decades to build systems for archiving and long-term preservation of scholarly content in digital formats.



## 1) Preservation Agreements (Publishers ⇔ Archives)

CHORUS participants must have preservation agreements covering all the titles in which articles from agency-funded research appear



## 2) Archival Metadata

CHORUS needs to document the archiving arrangements and make that visible in the dashboard



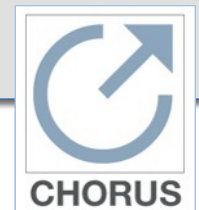
## 3) Trigger Terms & Conditions

Agencies want be involved in specifying trigger conditions

CHORUS may develop a standard modification to the archiving agreements

All publishers would need to execute amendments to their archiving agreements

CHORUS will maintain dashboard to monitor status



# CHORUS Trigger Events

DRAFT

- **Publisher No Longer in Business** - The publisher is no longer in business or is no longer in the business of publishing content or providing access to previously published content and there are no successor interests or reversions or transfers of rights;
- **Title No Longer Offered** - The publisher has stopped publishing and is no longer providing access to the content and there are no successor interests or reversion or transfer of rights;
- **Catastrophic Failure** - While still publishing content, the publisher is not able to provide access to the content electronically due to technical or similar catastrophic failure.
- **Article No Longer Accessible** – Full text is inaccessible to the public.

# Digital Preservation Use Cases

# DRAFT

## 1. Publisher closes public access to Public Access article (post-embargo) (for whatever reason)

Solution: CHORUS triggers the lighting of the article based on agency criteria

1. CHORUS Alerts are sent to publisher and agency
2. Agency contacts publisher to determine cause and impact (email, phone, etc.)
3. If not resolvable, Agency or CHORUS triggers the lighting of the article
4. Agency or CHORUS instructs Host Archive to make article publicly accessible
5. Agency redirects links for that article on their portal system to Host Archive

## 2. Publisher reopens public access to Public Access article (post-embargo)

Solution: CHORUS triggers the darkening of the article based on agency criteria

1. CHORUS Alerts are sent to publisher and agency
2. Agency confirms access
3. Agency or CHORUS triggers the darkening of the article
4. Agency or CHORUS instructs Host Archive to make article inaccessible
5. Agency redirects links for that article on their portal system back to publisher URL via CrossRef



# Digital Preservation during Pilot Phase 1 (September-December 2013)

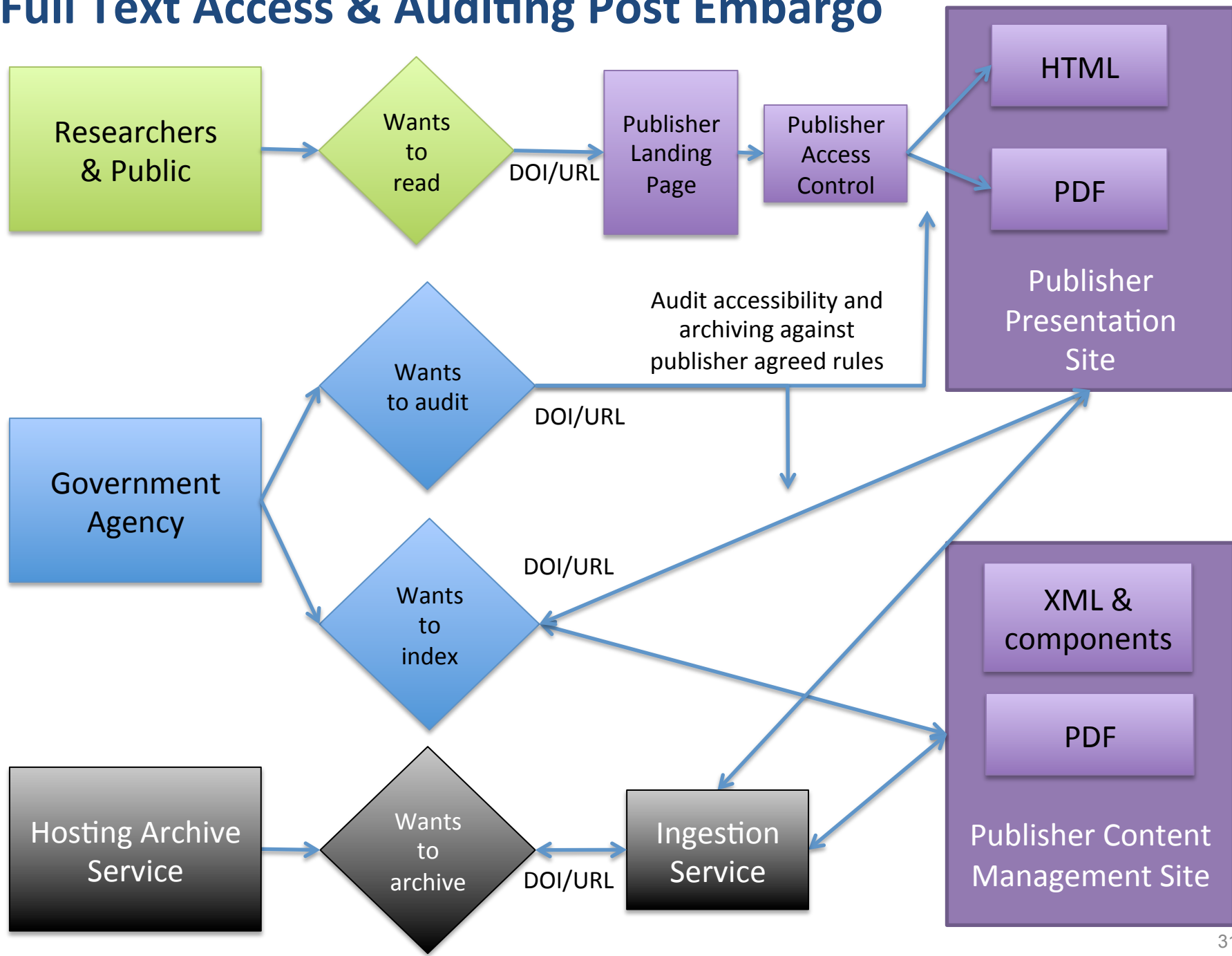
- Agreements between:
  1. CHORUS and Pilot Publishers
    - including requirement to supply PDFs to Host Archive Service (for files currently publicly accessible and in pilot)
  2. CHORUS and Host Archive Service (Deep Web Technologies)
  3. CHORUS and Agency (e.g., US DOE)
- Technical Options
  - Ingest
    - A. Pilot publishers send PDFs (currently publicly accessible) directly to Host Archive Service
  - or
    - B. Pilot publishers instruct ingestion service (CLOCKSS, Portico) to send relevant PDFs directly to Host Archive Service



# Digital Preservation Post-Pilot Phase 2 (starting January 2014)

CHORUS will continue to work with agencies and existing digital preservation services such as CLOCKSS and Portico to determine whether the existing operational processes between publishers and these archiving services can be incorporated into the CHORUS system to increase efficiency while still giving agencies the needed level of control over trigger events.

# Full Text Access & Auditing Post Embargo



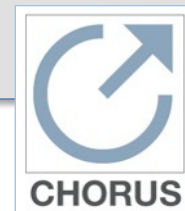
# Draft Goals of Pilot (1 of 2)

- Show how publishers can **work together to broaden access to content**
- Demonstrate **public-private partnership** between publishers and agencies
- Demonstrate that the system can **point to publicly accessible content on publisher sites** in a cost efficient and consistent manner
- Demonstrate that a **dashboard** can be used to check on publisher contributions and provide much needed **transparency**
- **Uncover issues with archiving** publicly accessible content with agency controlled triggers



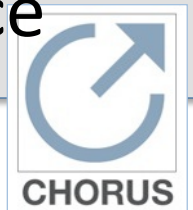
# Draft Goals of Pilot (2 of 2)

- **Uncover needs and desires** of agencies and publishers (for example, intramural vs. extramural research workflows)
- **Integrate with agency portals** as they are available
- Think through **legal agreement issues** between publishers, agencies and service providers
- Streamline and bring focus to **publisher internal processes** regarding implementing the CHORUS services
- Develop a **well documented method** for participation in CHORUS by publishers and agencies
- Help **facilitate open discussion** between publishers, agencies, institutions, libraries, researchers and public stakeholders by analyzing and **making the pilot system public**



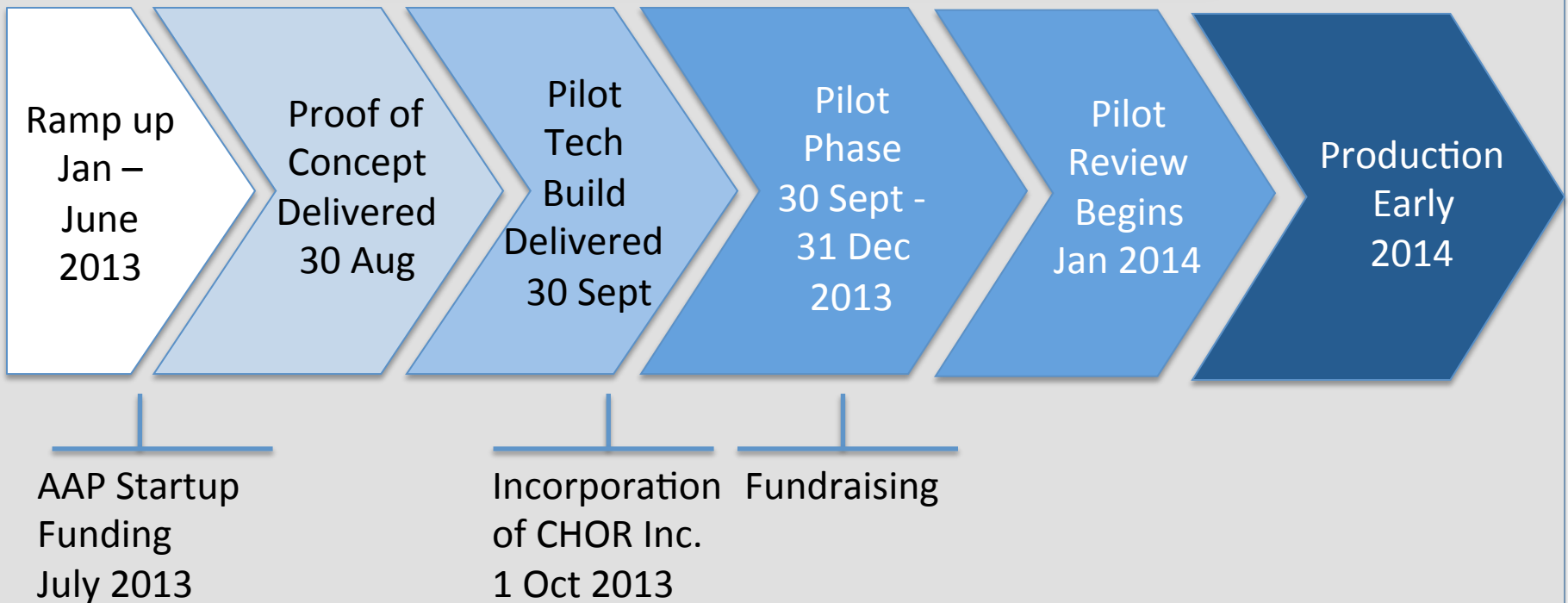
# What Do Publishers Need To Do?

- Become a signatory of CHORUS
- Become a member of CrossRef
- Sign up for FundRef as part of CrossRef membership
- Submit Agency Related data to FundRef for all new content
- Send License and Embargo metadata to CrossRef
- Deposit full text URIs with CrossRef Prospect
- Sign CHORUS Pilot Agreement
- Send relevant content to host archive service



# CHORUS

Clearinghouse for the **Open Research** of the United States





Clearinghouse for the **Open Research** of the United States

[ABOUT](#)[FACT SHEET](#)[SIGNATORIES](#)[FOR PUBLISHERS](#)[FOR AGENCIES](#)[EVENTS](#)[CONTACT US](#)

## LATEST ENTRIES

### What is CHORUS?

*Posted on* August 30, 2013 • [Leave a comment](#)

The Clearinghouse for the Open Research of the United States (CHORUS) is a not-for-profit public-private partnership to increase public access to peer-reviewed publications that report on federally funded research. Conceived by publishers, CHORUS would: Provide a full solution for agencies to comply with the OSTP memo on public access to peer-reviewed scientific publications reporting on ... [Continue reading »](#)

### CHORUS Enters Pilot Phase – to be unveiled at STM Annual Conference and Frankfurt Bookfair

*Posted on* October 2, 2013 • [Leave a comment](#)

The technical development enabling the pilot phase of the CHORUS service completed on September 30 and

## RECENT POSTS

CHORUS Enters Pilot Phase – to be unveiled at STM Annual Conference and Frankfurt Bookfair  
CHORUS Proof of Concept Unveiled  
CHORUS Conceptual Design Overview Graphic  
What is CHORUS?  
New highlights from the CHORUS process

## ARCHIVES

October 2013  
September 2013  
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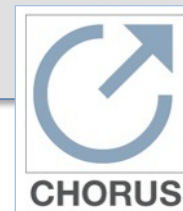
Clearinghouse for the **Open Research** of the United States

**Sign up today!**  
**[www.chorusaccess.org](http://www.chorusaccess.org)**

or contact me:

Howard Ratner

[hratner@chorusaccess.org](mailto:hratner@chorusaccess.org)





Clearinghouse for the **Open Research** of the United States

# Appendix





Clearinghouse for the **Open Research** of the United States

## Steering Committee

**David Crotty**, Oxford University Press

**Scott Delman**, ACM

**Fred Dylla**, American Institute of Physics

**Patrick Kelly**, John Wiley & Sons

**Thane Kerner**, Silverchair

**Susan King**, American Chemical Society  
(Chair)

**Howard Ratner**, CHORUS

**Joe Serene**, American Physical  
Society

**John Tagler**, PSP/AAP

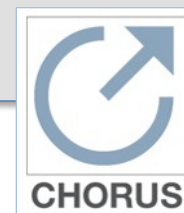
**David Weinreich**, PSP/AAP

**Alicia Wise**, Elsevier

**Fran Zappulla**, IEEE

Advisors

**Ed Pentz**, CrossRef





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## Technical Working Group

**Thane Kerner**, Silverchair (co-chair)

**Howard Ratner**, CHORUS (co-chair)

**Geoffrey Bilder**, CrossRef

**Elizabeth Crellin**, Oxford University Press

**Paul Dlug**, American Physical Society

**Mark Doyle**, American Physical Society

**Gerry Grenier**, IEEE

**Wayne Graves**, ACM

**David Martinsen**, American Chemical Society

**Chris McMahon**, American Institute of Physics

**Chris Shillum**, Elsevier

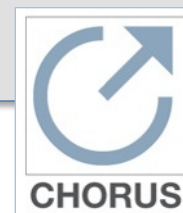
**Evan Owens**, American Institute of Physics

**Craig Van Dyck**, John Wiley & Sons

**John Walker**, John Wiley & Sons

Advisors

**Mark Martin**, Office of Scientific and Technical Information, US DOE





# Supporting Organizations (October 1, 2013)

## Publishers

ACM

Acoustical Society of America

American Association for the Advancement  
of Science

American Association of Anatomists

American Association for Cancer Research

American Association of Physicists in  
Medicine

American Association of Physics Teachers

American Astronomical Society

American Chemical Society

American Crystallographic Association, Inc.

American College of Chest Physicians

American College of Physicians

American Dental Association

American Diabetes Association

American Geophysical Union

American Institute of Aeronautics and  
Astronautics

American Institute of Biological Sciences

American Institute of Physics

American Mathematical Society

American Meteorological Society

American Medical Association

American Nuclear Society

American Physical Society

American Physiological Society

American Psychiatric Publishing

American Psychological Association

American Society for Microbiology

American Society of Agricultural & Biological  
Engineers

American Society of Civil Engineers

American Society of Mechanical Engineers

American Society of Plant Biologists

American Speech-Language-Hearing  
Association

Association for Research in Vision and  
Ophthalmology

AVS: Science & Technology of Materials,  
Interfaces and Processing

Biophysical Society

Bioscientifica

Botanical Society of America

BMJ

Cambridge University Press

Columbia University Press

Duke University Press

Ecological Society of America

Elsevier

Emerald Group Publishing Limited

The Endocrine Society

Entomological Society of America

Fabricators and Manufacturers Association,  
International

Genetics Society of America

Human Factors and Ergonomics Society

IEEE

iMedPub. Internet Medical Publishing

Institute of Physics Publishing

Journal of Bone and Joint Surgery

Journal of Rehabilitation Research and  
Development

Lynne Rienner Publishers, Inc.

Materials Research Society

McGraw-Hill

Mycological Society of America

New England Journal of Medicine

The Optical Society

Oxford University Press

The Physiological Society

The Royal College of Psychiatrists

The Royal Society

Royal Society of Chemistry

Society for the Advancement of Materials on  
Process Engineering

Society for the Study of Reproduction

Springer Science+Business Media LLC

Taylor & Francis

Thieme Publishers

University of Chicago Press

John Wiley & Sons

Wolters Kluwer Medical Research

## Service Providers and Other Organizations

Association of Learned and Professional  
Society Publishers

CrossRef

DC Principles Coalition

International Association of Scientific,  
Technical and Medical Publishers (STM)

Publishing Technology

Silverchair Science+Communications, Inc.