Public Symposium on Author Deposit Mandates for Federal Research Grantees

Martin Frank, Ph.D.

Executive Director, APS
Coordinator, DC Principles Coalition
NRC, Board on Research Data and Information
January 29, 2009

APS Journal Program

- 1887 APS founded (over 10,000 members)
- 1898 Launch of American Journal of Physiology
- 1993 online with journal content using Gopher server

APS Journal Program

At present, APS publishes 14 journals, 4,000 articles annually

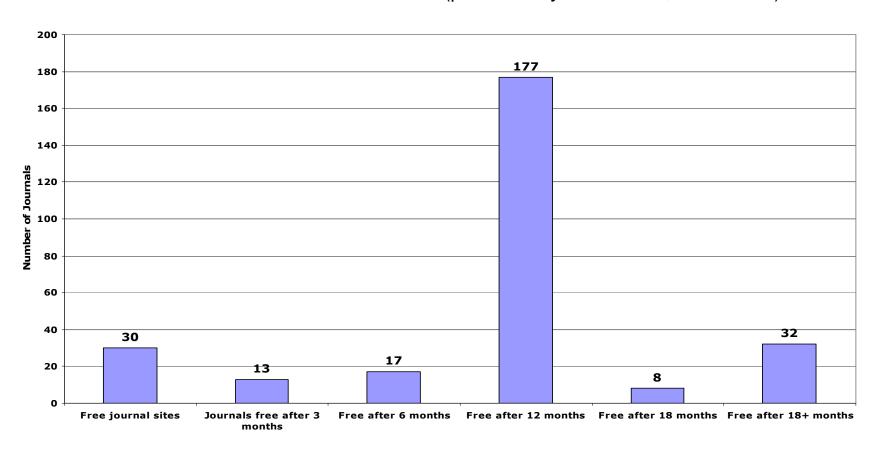
- Online Platform HighWire Press
- Legacy content scanned and online
- Author Choice Option offered for immediate access
- 2000 made decision to make content freely available online – 12 months after publication
- As an APS decision, could be modified if it proved disadvantageous to Society's business model

HighWire Press

- A division of the Stanford University Libraries
- World's largest repository of high impact, peerreviewed scientific content.
- Hosts over 1,400 journals from more than 140 scholarly publishers
- Published 5,176,875 full text articles to date
- 1,834,583 are freely available today.
- HW publishers produce 71 of the 200 mostfrequently-cited journals

Free/Delayed Access Models

277 out of 370 HW Medline Journals (provided by John Sack, HW Press)



DC Principles Coalition

- Founded in March 2004 to represent the concerns of not-for-profit publishers
- Believe in free access to science
- Make the full text of our journals freely available within the constraints of the publisher's business and publishing requirements

DC Principles Coalition

- Comprised of 73 publishers with nearly 400 journals ranging from top-tier medical and research to small niche publications
- Societies have over 700,000 individual members
- Publish nearly 100,000 articles annually
- ~20% are based on research funded by NIH
- Diverse group Members believe in free access but some opt for free access after 2 years, others after 2 months because one policy does not fit the needs of all publishers.

DC Principles Coalition

- Members acknowledge benefits of wide dissemination for all content
- Justification for going online and making content free after an embargo period
- Free access to developing world through WHO Initiatives – HINARI, AGORA, OARE
- Patient access provided through PatientInform, an industry developed initiative and via patient directed links on individual journals

DC Principles Coalition and HighWire Journals

- Indexed in Google and Google Scholar
- Indexed in PubMed with live links back to the journal article
- Applies to all articles, not just those funded by the government
- Reader enhancements provided including:
 - Links to NCBI databases and referenced articles

NIH Public Access Plan Justifications

- Access for the Public
- Archiving of NIH Funded Research
- Portfolio Management
- Advancing Science

All the justifications could have been addressed had NIH negotiated in good faith with publishers. Instead NIH has created PubMed Central and become a publisher

NIH Public Access Plan

- PMC competes with not-for-profit and commercial publishers
- Requires deposit of published manuscripts or articles after publisher has done the heavy lifting of validating the science through the costly and time consuming peer review process
- PMC then enhances the content, duplicating publishers efforts, by linking to NCBI databases such as GenBank and PubChem

NIH and PMC – Not Good Stewards

- Developed their own standard for making connections between databases, articles, etc.
- Ignored publishers who conceived, promulgated, and implemented the wide use of Digital Object Identifiers (DOI) and CrossRef to standardize article reference linking
- DOI technology links information elements within an article to a range of databases

NIH and PMC – Not Good Stewards

- NIH encouraged to use DOI to link back to publisher's version of record
- Instead, NIH created PMCID, mandating that it be used by its investigators
- Such duplication of effort is wasteful and undermines efforts of publishing industry to create a universal system
- PMCID competes with publisher's website since it directs users to article on PMC, not the journal which uses the DOI

Is NIH a publisher and a good steward of publicly funded research?

- Actions suggest that NIH is trying to become the singular resource for NIH funded research
- However, since NIH is also hosting full-text articles funded by other sources, their PMCID will draw readers away from the journals
- The likely result cancellation of some journals as has been suggested by studies!

NIH Public Access Mandate

- Applies only to NIH grant holders, but deposits into PMC are also being made by others
- For journals with greater than 50% NIH funded content (mostly not-for-profit), the threat of subscription cancellations is real
- The threat would be raised if mandate applied to all Federal agencies
- In financially tough times like now, would libraries subscribe or wait 12 months for access and instead use interlibrary loan or pay per view?

How Might Publishers Respond?

Publishers need revenue to function

- To fund the costs of conducting peer review, editing, publishing, and archiving
- To create unique journal identities for researchers and funders to use in making professional judgments
- To make the substantial investments in new technologies to speed distribution, broaden access, archive and protect research results, thereby helping to advance science

Impact on Publishers

- In the absence of subscription revenue, costs would be recovered through author fees, reducing funds available for research
- Erosion of funding base could negatively impact societies abilities to serve their members
- Researchers would be disadvantaged
 - less freedom to choose where to publish
 - diversion of resources from research

Is There a Better Way?

- On January 21, President Obama signed the Transparency and Open Government Act Memo
 - Directs the administration "to disclose information rapidly in forms that the public can readily find and use."
 - Critical aspect of statement is "in forms that the public can readily find and use."
 - That does not mean primary research articles!

NSF Can Show the Way

- America Competes Act
- NSF directed to provide access to government funded research in a way that does not conflict with copyright principles
- NSF will provide access to research reports, summaries of journal articles, and citations to the copyrighted articles
- A more equitable way to proceed!

Thank you

Martin Frank

- mfrank@the-aps.org
 - -301-634-7118
- www.dcprinciples.org