



National Library of Sweden

Open Access – from a fringe movement to a serious alternative

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Open Access – the historical context

We had the age-old system for collegial, scientific communication
Enters Big Science and big commercial publishers

Paradoxical outcome:

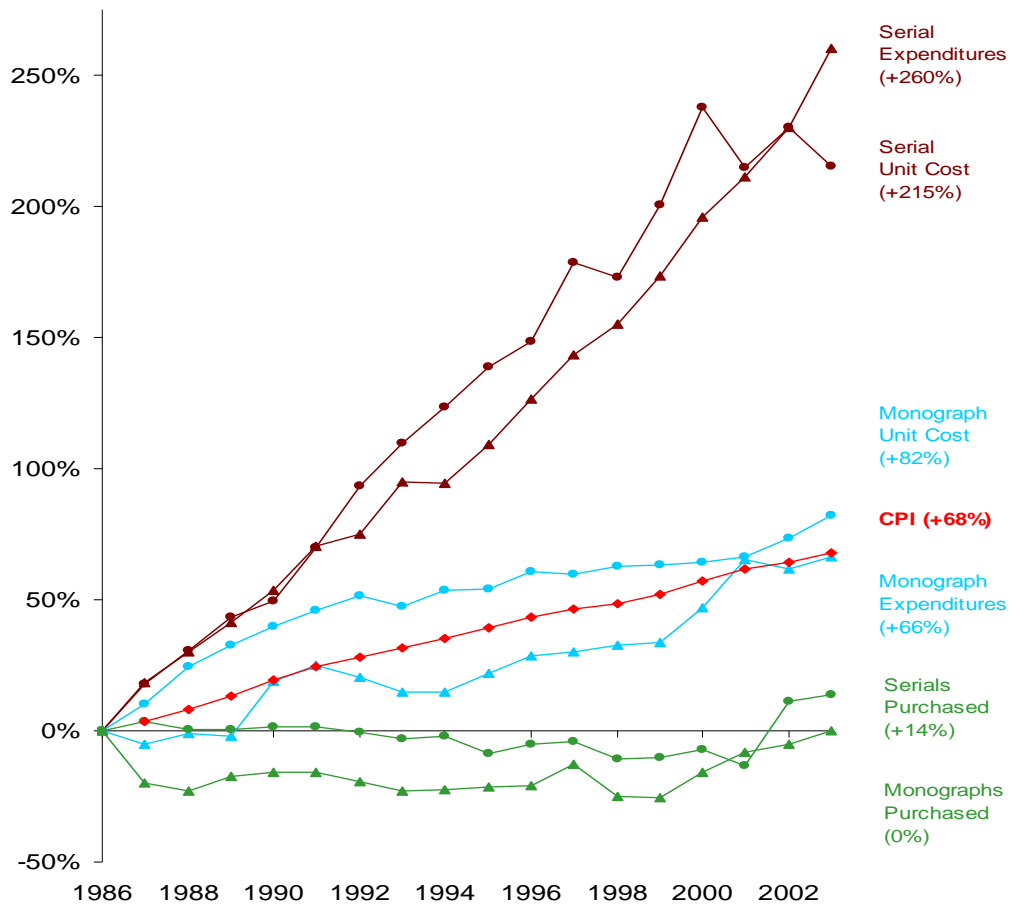
Researchers write and review articles for free, edit journals for free,
the reward is recognition

Commercial publishers get substantial profits from selling these
journals to universities

Universities first pay researchers to do research and to participate in
journal publishing and then buy back their products at a high price



Graph 2
Monograph and Serial Costs
in ARL Libraries, 1986-2003



Source: ARL Statistics 2002-03, Association of Research Libraries, Washington, D.C.
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Mean institutional price per page and per citation for journals in six scientific fields (from Bergstrom & Bergstrom, 2004)

Field	Cost per page (U.S. \$)		Cost per citation (U.S. \$)	
	For-profit	Non-profit	For-profit	Non-profit
Ecology	\$1.01	\$0.19	\$0.73	\$0.05
Economics	\$0.83	\$0.17	\$2.33	\$0.15
Atmos. Sci.	\$0.95	\$0.15	\$0.88	\$0.07
Mathematics	\$0.70	\$0.27	\$1.32	\$0.28
Neurosci	\$0.89	\$0.10	\$0.23	\$0.04
Physics	\$0.63	\$0.19	\$0.38	\$0.05

The Internet turns the tables

Researchers do not anymore need the publishers to get their work distributed

Why limit access when you are not dependent on printing and physical distribution?

Mainstream response: journals go on-line, are sold in packages with access barriers, combining new technology with old economic model

Fringe response: E-print archives and Open Access journals are born



Open Access – one of a family of movements

Started as a movement of concerned scientists around 1990, Stevan Harnad, Paul Ginsparg, Peter Suber, Harold Varmus, Jean-Claude Guédon and many others

Use the Internet to create new models for scientific communication, maximal impact for minimal costs!

Librarians, frustrated by monopoly pricing, came to support later

OA is related to Open Source, Open Data, Open Educational Resources but not to illegal filesharing. The interests of the author are not harmed, but on the contrary advanced



OA from the fringe to the center

Growing support from the research community, research funders, universities and political leaders

- ***Public Library of Science Open Letter (2001)***
- ***Berlin Declaration of Open Access to Knowledge in the Sciences and Humanities (2003)***
- ***Wellcome Trust (2005) and Research Councils UK (2006) mandates OA***
- ***National Institute of Health mandate, decision by the President of the US (2007)***



OA-policy within the EU

- Study on the economic and technical evolution of the scientific publication markets in Europe (2006)
- Petition for guaranteed public access to publicly-funded research results (2007)
- European Research Council OA mandate (2007)
- Open access pilot in FP7 (2008), energy, environment, health, parts of information and communication technologies, research infrastructures, science in society, and social sciences and humanities, in all 20 % of FP

Defining Open Access

- "Open-access (OA) literature is digital, online, free of charge, and free of most copyright and licensing restrictions." (Peter Suber)
- "The author(s) and right holder(s) of such contributions grant(s) to all users a free, irrevocable, worldwide, right of access to, and a license to copy, use, distribute, transmit and display the work publicly ... subject to proper attribution of authorship" (Berlin declaration)



Defining Open Access

- Focus on "royalty-free literature" i.e. "literature that authors give to the world without expectation of payment"... "for our purposes is the body of peer-reviewed scientific and scholarly research articles and their preprints." (Peter Suber)
- "OA is compatible with copyright, peer review, revenue (even profit), print, preservation, prestige, career-advancement, indexing, and other features and supportive services associated with conventional scholarly literature.
- The primary difference is that the bills are not paid by readers and hence do not function as access barriers". (Peter Suber)

Motives for Open Access

- Researchers get maximum visibility and impact
 - As do universities and research funders
- All potential users get access to scientific information
 - Even if your university can't afford all journals
 - Even if your country can't afford any journals
 - Even if you are not part of a university licensing consortia but still need scientific information
- The full potential of the web is realized
 - in text mining
 - in cutting costs
 - in linking to Open data and Open Educational Resources



Open Access journals

- Funding by those who are interested in disseminating the content, by any other means than reader charges, including author publication fees, institutional support, grants from government, foundations, funders etc
- OA journals and quality
- The author retains his copyright
- The numbers are growing quickly

Directory of open access journals - Mozilla Firefox

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http://www.doaj.org/

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DOAJ - Directory of Open Access Journals, 2008, [Lund University Libraries](#), Head Office

http://www.doaj.org/doaj?func=home

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Open Access repositories

- Self-archiving/parallel publishing of articles pre- and/or post-print
- For a swift increase of OA material
- Puts a pressure on publishers
- OA repositories are organized by discipline or institution
 - ArXiv, PubMed Central and RePEc are some important subject repositories
- Most journals allow depositing of post-print (63 %) or pre-print (32 %), but with some restrictions
- Repositories don't perform peer review, only basic quality checks
- Institutional repositories typically also contain theses, reports etc

Scientific Commons | A Community for Scientific Information - Mozilla Firefox

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http://www.scientificcommons.org/

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Details at a Glance

Publications	23,673,972
Authors	9,319,790
Repositories	960

Selected Publication Information

Keywords	picturesque
Authors	Bowring, Jacky
Repository	Lincoln University Research Archive

Recently added Publications

[Institutionalising the picturesque: the discourse of the New Zealand Institute of Landscape Architects \(1997\)](#)

[Bowring, Jacky](#)

Despite its origins in England two hundred years ago, the picturesque continues to influence landscape architectural practice in late twentieth-century New Zealand. The evidence for this is derived...

[Post-dispersal seed predation in a conifer-broadleaf forest remnant : the importance of exotic mammals \(2006\)](#)

[Berry, Christopher J.J.](#)

Despite extensive international acceptance of the critical role of mammalian post-dispersal seed predation in many plant communities, in New Zealand we have limited knowledge of these predators'...

[Multi-Species Interactions in Weed Biocontrol: Carduus nutans as a Case Study \(2008\)](#)

[Groenteman, Ronny](#)

Classical biocontrol systems are sometimes treated as an exercise in community assembly. As such, they include multiple species interactions. This thesis explores multi-species aspects in classical...

[Choosing the corporate future: Technology networks of choice concerning the creation of high performance fiber technology. \(1992\)](#)

[Mulder, Karel Frits](#)

This study deals with the question of what determines the outcomes of the choices made by large corporations when they develop new technology. To this end, four types of choice made in the course of...

[Image analysis of gut microflora. \(1992\)](#)

[Meijer, Bartele Coenraad](#)

In this thesis digital image processing is applied to the bacteriology of the human gut. Two motives underlie the work described here: gut flora is difficult to approach by classical bacteriologic...

[Surfactant and extracorporeal life support. \(1992\)](#)

[Plötz, Franz Berend](#)

There spiratory distress syndrome (RDS) of the preterm infant, also called Hyaline Membrane Disease (HMD), remains a significant cause of morbidity and mortality despite improvements in neonatal...

[Implementation of a Microstrip Square Planar N-Way Metamaterial Power Divider \(2008\)](#)

[Zong, Junyao](#)

The work done in this thesis focuses on the design of a square-shaped 20-way metamaterial power divider which is fabricated in microstrip technology and operates at 1 GHz. The divider comprises 12...

[\(Table 1\) Experimental data for kerogens from DSDP Hole 41-368 \(2008\)](#)

[Ishiwatari, Ryoshi, Morinaga, Shigeo, Simoneit, Bernd R T](#)

Potassium permanganate oxidative degradations were conducted for kerogens isolated from Cretaceous black shales (DSDP Leg 41, Site 368), thermally altered during the Miocene by diabase intrusions and...

[Distinction of some induced representations \(2008\)](#)

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Growing share of Open Access publications

- The official academic and political support for OA has passed a point of no return and the realities on the ground change accordingly
- A recent study concluded that 19,4 % of a years production of peer reviewed scientific articles are available as Open Access
- The year of study was 2006
- So we have not seen the effects of all new funders mandates yet

Challenges for OA

- OA promises to cut the costs, but how do you transfer the present funding of subscriptions/licenses to funding of OA publishing?
 - Who will win or lose?
 - How will article processing fees affect publishing patterns?
 - How should real competition come into play?
- The social web and OA
 - Example Open WetWare
- Connecting OA publications and open data

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New features include:

- Dynamic calendars**
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- Improved navigation**
Jump between entries with ease

New!
One-click setup

Welcome new OWW users!

Chih-Lung Shu • Phillip J. McCown • Mary N. Teruel • Andrea Loehr • Amy Jablonski • Tiffany

OWW Community Blog 

Springer buys open access publisher BioMed Central

According to Scientific American, the not-so-open-access publisher Springer has just acquired the very open access pioneer site BioMed Central.

Charts and plots on OWW made easy

Some have said that an image is worth a thousand words, or at least a dozen or two data points. Taking measurements is a given in any lab, working in any field of science.

Putting it all out in the open...

There's an interesting (but rather short) interview with Cameron Neylon and Jean-Claude Bradley on the topic of open notebooks and sharing of data on the

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Reflections on roles

- International and Swedish studies show that researchers are positive to the Open Access model
- How does this translate into action?
- There has to be an economic and regulatory framework that makes it easy for researchers to publish Open Access without negative effects on career, economy and freedom to choose the best journals to publish in

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OpenAccess.se - Scholarly Publishing

The OpenAccess.se program (OA) is intended to promote maximum accessibility and visibility of works produced by researchers, teachers and students. We accomplish this by supporting electronic publishing at Swedish institutions of higher education.

Mandates

- Coordinate and develop standards and tools for e-publication
- Increase the volume and diversity of content in open archives
- Promote the use of material in open archives and OA journals
- Improve the quality of content and services
- Promote long-term access to the digital publications of academic institutions
- Support publishing in OA journals and transition to OA models for Swedish scholarly journals

OA News

2008-01-14

New projects in OpenAccess.se

The Autumn 2007 Call for Proposals in the OpenAccess.se programme was met with considerable interest.

> Read more

2007-11-15

The National Library signs CERN-initiative

The National Library of Sweden signed the Expression of Interest to join SCOAP3.

> Read more

2007-11-15

Open Access and Nordic scientific journals

A large Nordic project will support the the transition of scientific or learned nordic journals to Open Access mode



National Library
Research Library
within the Humanities
Public Authority



The OpenAccess.se is a

Long-term, strategic co-operation between

- The National Library of Sweden
- Swedish university libraries,
- The Association of Swedish Higher Education (SUHF),
- The Swedish Research Council,
- The Royal Swedish Academy of the Sciences
- The Swedish Knowledge Foundation,

Runs 2006-2009, ca 3-400 000 Euro/year



Objectives

- To promote co-ordination and development of standards and tools for electronic publishing
- To promote growth of the volume and diversity of material in academic repositories
- To promote access to and use of content in academic repositories and Open Access journals



Objectives

- To secure long-term access to digital publications and other material in academic repositories
- To develop quality standards for content and services
- To support publishing in Open Access journals and the migration of Swedish scientific journals to an Open Access model



The role of the National library

- National libraries can and should play a role in promoting Open Access.
- The National Library of Sweden combines the mission of a “traditional” national library with that of a national research library authority.
- Promoting Open Access essentially concerns the accessibility of Swedish research publications and thus fits very well with other tasks of national libraries, like keeping national bibliographic services, receiving legal deposit of and providing long-term access to digital documents.
- The national library can guarantee long-term sustainability of new OA services.



That is all
and thank you for listening!

Questions?

Contact: jan.hagerlid@kb.se
Take a look at www.openaccess.se!