

SCHOLARLY PUBLISHING & ACADEMIC RESOURCES COALITION SPARC EUROPE

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What we can do to promote cheaper and open scientific information?

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• We all lose out if the communication channels are not optimal.



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What is a Journal?

Scholarly publishing comprises four functions:

| REGISTRATION | CERTIFICATION | AWARENESS | ARCHIVING | | |
|---|------------------|---------------|----------------|--|--|
| Establishing | Certifying the | Assuring | Preserving | | |
| intellectual | quality/validity | accessibility | research | | |
| priority | of the research | of research | for future use | | |
| Current model: <u>Integrates</u> these functions in journals This made sense in print environment | | | | | |



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Two complementary strategies:

- Self-Archiving: Scholars should be able to deposit their refereed journal articles in open electronic archives which conform to Open Archives Initiative standards
- **Open-Access Journals**: Journals will not charge subscriptions or fees for online access. Instead, they should look to other sources to fund peer-review and publication (e.g., publication charges)

What are institutional repositories (open archives)?

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Essential elements

- *Institutionally defined:* Content generated by institutional community
- *Scholarly content:* preprints and working papers, published articles, enduring teaching materials, student theses, data-sets, etc.
- *Cumulative & perpetual:* preserve ongoing access to material
- *Interoperable & open access:* free, online, global









Open Access

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What is it?

Call for *free, unrestricted access* on the public internet to the literature that scholars give to the world *without expectation of payment*.

Why?

Widen dissemination, accelerate research, enrich education, share learning among rich & poor nations, enhance return on taxpayer investment in research.

How?

Use existing funds to pay for *dissemination*, not *access*.





Utopia!

- All research material freely available in a world-wide network of repositories
- Peer-reviewed papers receive quality stamp from journals, financed by authors not readers
- All peer-review papers are freely available to anybody with internet access





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Theory Into Practice - Service Providers

| • | Arc | Search engine |
|---|------------------|--|
| • | Callima | Search engine |
| • | citebaseSearch | Search engine (with citation ranking) |
| • | CYCLADES | Search engine |
| • | DP9 | Presents OAI archives hidden in the deep Internet |
| • | iCite | Citation indexing system covering physics journals |
| • | my.OAI | Search engine |
| • | NCSTRL | Unified access to archives in computer sciences |
| • | OAIster | Search engine |
| • | Perseus | Search engine in humanities |
| • | Public Knowledge | Discipline-specific OAI metadata harvesting |
| | Harvester | service |
| • | Scirus | Elsevier Science search engine |
| • | TORII | Unified access to various open archives (physics and computer Science) |
| | | |

15





Theory Into Practice - Open Access

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- SPARC open access journal partners:
- Algebraic and Geometric Topology
- *BioMed Central* (published 4000+ papers)
- Documenta Mathematica
- Calif. Digital Library *eScholarship*
- Geometry & Topology
- Journal of Insect Science
- Journal of Machine Learning Research
- New Journal of Physics

Theory Into Practice - Open Access Journals w.sparceurope.org • Two new journals from the Public Library of Science - PLoS Biology and PLoS Medicine

- Indian Academy of Sciences has made their 11 journals available free online
- Lund Directory of Open Access Journals (http://www.doaj.org/) - over 670 peerreviewed open access journals
- Sabo 'Public Access to Science' Act
- UK Science and Technology Committee Inquiry
- Wellcome Trust support of Open Access
- Berlin Declaration in Support of Open Access



Theory Into Practice - Open Access Journals (Cont.)

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Berlin Declaration in Support of Open Access:

Germany

Fraunhofer Society Wissenschaftsrat HRK Max Planck Society Leibniz Association Helmholtz Association German Research Foundation Deutscher Bibliotheksverband

France

Centre National de la Recherche Scientifique (CNRS) Institut National del la Santé et de la Recherche Médicale (INSERM)

Austria

FWF Austrian Science Fund (FWF Der Wissenschaftsfonds)

Belgium

General of the Fund for Scientific Research – Flanders (Fonds voor Wetenschappelijk Onderzoek -Vlaanderen)

Greece

National Hellenic Research Foundation









Gradual Transition - Advantages

- Authors who are willing and able to pay receive the benefits of open access (i.e., wider dissemination, higher citation, greater kudos, etc.).
- Authors who are unwilling or unable to pay can still publish in their journal of choice.
- The benefits to authors of open access can be accurately measured
- As the benefits of open access become clear authors will place pressure on their funding bodies to provide grants for publication.
- As the proportion of open access papers increases so should the journal's impact factor.
- The owner is provided with a smooth transition period as the decline in subscription revenue is matched to the increase in publication revenue – low financial risk





Practical issues

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Impediment to formal publication?

- Trend for publishers to accept that online posting is not prior publication
- Develop discipline-specific policies

Intellectual property issues

- Repository registration protects priority
- Retain rights to e-print
- http://www.lboro.ac.uk/departments/dis/disresea rch/romeo/index.html
- No more plagiarism online than offline

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Practical issues

Perceived quality

- Label & differentiate types of content
- Reveal certification methods

Rewarding faculty participation

- Should institutions reward registration in institutional repository?
- Should funding agencies reward institutions and scholars for registration in institutional repositories?



What Libraries Can Do

Self-archiving:

- Maintain institutional repository.
- Help faculty deposit their research papers, new & old, digitizing if necessary.

Open-access journals:

- Help open access journals launched at your institution become known to other libraries, indexing services, potential funders, and potential readers.
- Make sure scholars at your institution know how to find open access journals and archives in their fields. Set up tools to allow them to access these.



What Libraries Can Do

- Support open access journal 'institutional memberships' (e.g. BioMedCentral)
- As open access journals proliferate, and as their usage and impact grow, cancel over-priced journals that do not measure up (e.g. Oldenburg, Cornell, University of California)
- Engage with University administrators and funding bodies to raise the issue of open access
- Familiarize yourself with the issues see *Create Change* at <www.createchange.org>.
- Support SPARC Europe to multiply your effort.



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What Academics Can Do

- Deposit papers in local repository
- Check Project RoMEO page for publishers' attitudes to self-archiving http://www.lboro.ac.uk/departments/dis/disresearch/rom eo/index.html
- Support open access journals, by submitting and reviewing papers, reading and citing articles
- Launch new open access journals if appropriate
- If an Editor or Board member discuss publication rights, open access, and reasonable prices with their publisher
- Discuss with funding bodies and university administrators funding and promotion criteria – ensure that faculty are not penalized for using repositories or publishing in open access journals
- Lobby funding bodies for specific publication funds



Theory Into Practice - Building Momentum

- Increasing numbers of libraries are taking on role of hosts for institutional repositories
- Increasing library resistance to the old models (subscriptions, big deals, etc.)
- More open access journals proving the feasibility of the business model
- Open access journals are attracting quality authors, editors, and readers
- Increasing awareness of authors of need to retain their publishing rights



Theory Into Practice - Building Momentum (Cont.)

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- Increasing awareness of Editors and Editorial Board members of their power and responsibilities
- Increasing awareness amongst funding bodies of publishing issues
- Increasing awareness at the political level of scholarly communication issues
- Entry level for new players reduced
- Membership of SPARC Europe increasing
- The benefits to authors are becoming apparent

Open Access – Appealing to All the Major Stakeholders

- To the funders of researcher both as a public service and as an increased return on their investment in research
- To the authors as it gives wider dissemination and impact
- To readers as it gives them access to all primary literature, making the most important 'research tool' more powerful
- To editors and reviewers as they feel their work is more valued
- To the libraries as it allows them to meet the information needs of their users
- To the institutions as it increases their presence and prestige
- To small and society publishers as it gives them a survival strategy and fits with their central remit of serving their communities



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Create Change!

"Although the battle is being fought over subscription prices, what is really at stake...is the scientific process itself."

New York Times, Dec. 8, 1998

" An old tradition and a new technology have converged to make possible an unprecedented public good. "

Budapest Open Access Initiative, Feb. 14, 2002

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