

Grand Valley State University

From the Selected Works of Lee C. Van Orsdel

May 21, 2012

Openness: Contribute, Access, Use

Lee C. Van Orsdel, *Grand Valley State University*



Available at: https://works.bepress.com/lee_vanorsdel/22/

Openness: contribute, access, use

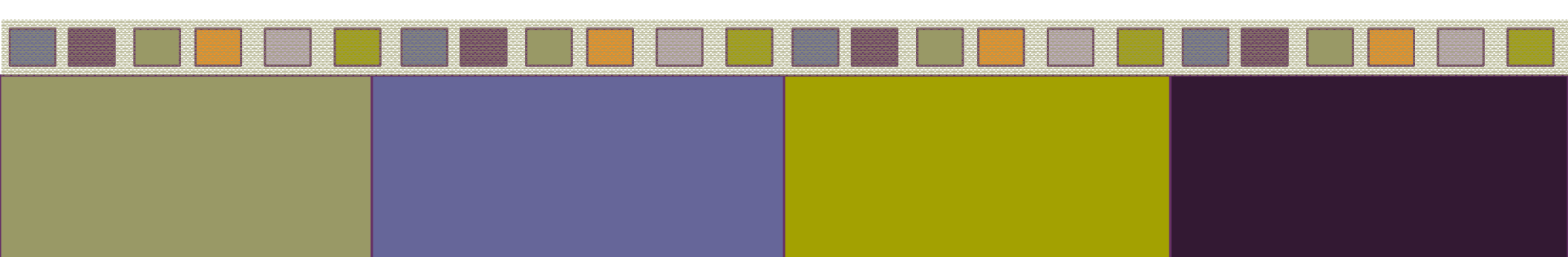
Lee Van Orsdel
Atlanta University
May 21, 2012



ACRL Scholarly Communications Roadshow:
From Understanding to Engagement

Learning Outcomes

- Understand that open access is part of a larger open movement
- Understand the conceptual underpinnings of open movements
- Identify current events within the open and public access movements
- Identify the benefits of OA and ways to address concerns about OA



OPEN source
education
textbooks
science
data
books
access



OPEN EDUCATION



stanford engineering everywhere

[Home](#) [Courses](#) [What is SEE?](#) [FAQ](#) [Survey](#) [Contact Us](#)

Welcome to Stanford Engineering Everywhere (SEE)

For the first time in its history, Stanford is offering some of its most popular engineering classes free of charge to students and educators around the world. [Stanford Engineering Everywhere \(SEE\)](#) expands the Stanford experience to students and educators online. A computer and an Internet connection are all you need. View lecture videos, access reading lists and other course handouts, take quizzes and tests, and communicate with other SEE students, all at your convenience.

SEE programming includes one of Stanford's most popular sequences: the three-course Introduction to Computer Science taken by the majority of Stanford's undergraduates and seven more advanced courses in artificial intelligence and electrical engineering.

Stanford Engineering Everywhere offers:

- Anytime and anywhere access to complete lecture videos via streaming or downloaded media.
- Full course materials including syllabi, handouts, homework, and exams.
- Online social networking with fellow SEE students.
- Support for PCs, Macs and mobile computing devices.

Stanford encourages fellow educators to use Stanford Engineering course materials in their own classrooms. A Creative Commons license allows for free and open use, reuse, adaptation and redistribution of Stanford Engineering Everywhere material.

[Get Started](#)

Support for Stanford Engineering Everywhere provided by Sequoia Capital and the Stanford Center for Professional Development.

SEQUOIA CAPITAL  **STANFORD UNIVERSITY**
Stanford Center for Professional Development

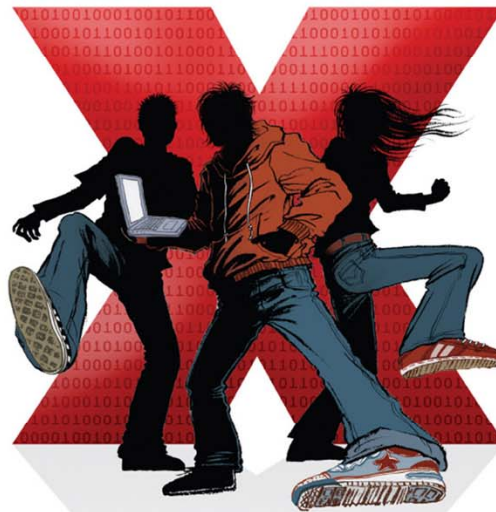


OPEN BOOKS

"I'd recommend **LITTLE BROTHER**
over pretty much any book I've read this year."

NEIL GAIMAN,
author of **SANDMAN** and **AMERICAN GODS**

LITTLE BROTHER



CORY DOCTOROW

"A rousing tale of techno-geek rebellion."

SCOTT WESTERFELD,
author of **UGLIES**, **PRETTIES**, and **SPECIALS**

OPEN BOOKS

[Home](#)[Search](#)[About OAPEN](#)[Peer Review](#)[Metadata](#)

Browse the library

All
Title
Author

Top subjects

Society and social sciences
Humanities
Economics, finance, business and management
The arts
Law
Literature and literary studies
Language
Earth sciences, geography, environment, planning
History

Welcome to OAPEN

online library and publication platform

OAPEN (Open Access Publishing in European Networks) is a collaborative initiative to develop and implement a sustainable Open Access publication model for academic books in the Humanities and Social Sciences. The OAPEN Library aims to improve the visibility and usability of high quality academic research by aggregating peer reviewed Open Access publications from across Europe.

Search the library

[▶ advanced search options](#)

Latest Tweets

New in the OAPEN Library - Immigrant Performance in the Labour Market : Bonding and Bridging Social Capital <http://t.co/f6fiw86O>

3 days ago

Featured titles



Ancient Fishing and Fish Processing in the Black Sea Region
Aarhus University Press



Grünes Band - Modellregion für Nachhaltigkeit
Universitätsverlag Göttingen



Limiting institutions?: The challenge of Eurasian security governance
Manchester University Press



Voicing in Contrast: Acquiring a Second Language Laryngeal System
Academia Press

OPEN PEER REVIEW

SHAKESPEARE QUARTERLY



*Shakespeare
and New Media*

Published for the Folger Shakespeare Library
in association with
The George Washington University
by The Johns Hopkins University Press

Volume 61

Fall 2010

Number 3

OPEN SCIENCE



Labs & Groups

From around the world



Courses

Host & view classes



Protocols

Share techniques & more



Blogs

Read OWW blogs

Contributing protocols

Add new protocols

- [Add a new lab- or person-specific protocol](#)
- [Add a consensus protocol \(?\)](#)

Improve protocols in development

Please Contribute!

- [Addition of 3' A overhangs to PCR products](#)
- [Baby cell column](#)
- [Chromosomal DNA isolation from E. coli](#)
- [DNA Precipitation](#)
- [DNase Protocol](#)
- [Duffy: LIC Cloning](#)
- [Etchevers: ChIP francais](#)
- [ISISBio: Protocols/Purification/Tus](#)
- [Pulse-chase protein production](#)

In vivo

[Acetobacter xylinum](#) [show]

[Arabidopsis thaliana](#) [show]

[Escherichia coli](#) [show]

[Lactic Acid Bacteria](#) [show]

[Mycoplasma florum](#) [show]

[Mouse](#) [show]

[Mycobacterium smegmatis](#) [show]

[Plasmodium falciparum](#) [show]

[Streptomyces](#) [show]

[T7](#) [show]

[Yeast](#) [show]

[Phycomyces](#) [show]

In silico

[Cloning](#) [show]

[Data analysis](#) [show]

[Databases](#) [show]

[Modelling](#) [show]

[Sequence analysis](#) [show]

In vitro

[Nucleic acids](#) [show]

[DNA](#) [show]

[RNA](#) [show]

[Protein](#) [show]

[Lipid](#) [show]

[Mammalian cell culture](#) [show]

[Plant specific protocols](#) [show]

Other

[General resources](#) [show]

[Aseptic Technique](#) [show]

[Flow cytometry](#) [show]

[Microfluidics](#) [show]

[Microscopy](#) [show]

OPEN DATA

- Open access to data not just papers
- The rate of discovery is accelerated by better access to data
- Actionable data
- Funder mandates around management and sharing of data (in some cases)

OPEN ACCESS



Self-archiving

Authors deposit manuscript in a repository
voluntarily or
to comply with mandate or
to follow discipline practice

OA publishing

Publisher finds alternative
funding model—all content
free to read
Funding model may require
author/funder to pay APC
Liberal author and user rights

Hybrid

Publisher experiments
Offers authors choice—OA or
regular publishing route
OA choice requires payment of
article processing fee
May/may not affect journal cost



Libre

+  permissions





What 'libre' means

open and free to read

open to contributions and participation

open to use with few or no restrictions

open to indexing and machine readable



OA approaching a tipping point? four indicators

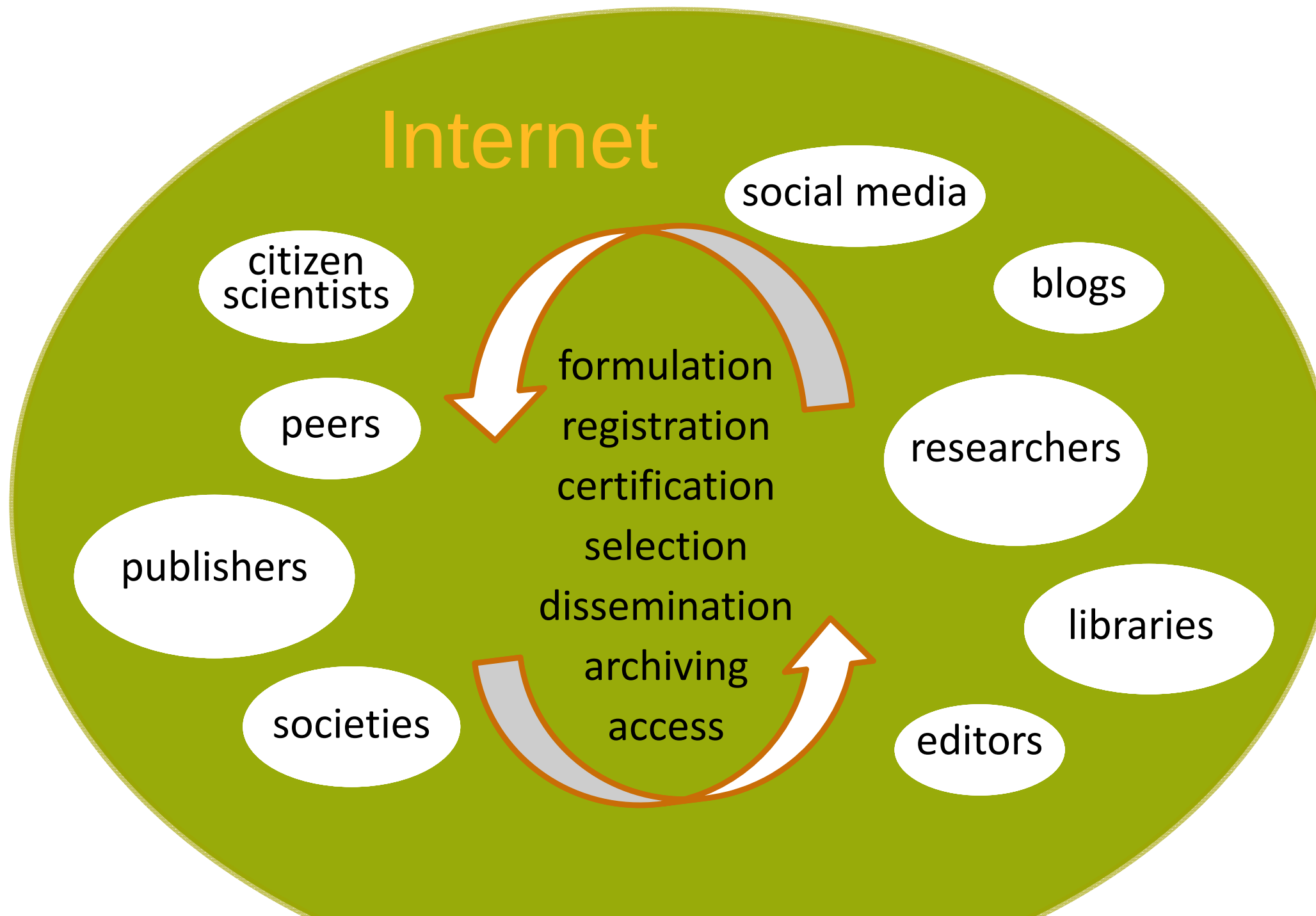
disaggregation of traditional publishing

rise of mega-journals

momentum from researchers & funders

push for access to publicly funded research

disaggregation of traditional publishing system



rise of the mega-journal



PLOS one

www.plosone.org

The Next Generation of Scholarly Communication

2011: <14,000 articles

Why PLoS ONE is Transformative

PLOS ONE enables the creation and use of "living" documents for post publication discussion by applying online tools to Open Access research.

- **Submissions** of all valid scientific qualify for review from any science discipline.
- **Annotations** highlight important points. Notes can be added directly to papers.
- **Discussions** enable authors and readers to interact.
- **Ratings** allow immediate feedback. ★★★★★
- **Full XML** to facilitated data mining.
- **Trackbacks** links to blogosphere.
- **Journal Club** to promote student involvement.
- **PLOS Hubs** to serve specific constituencies.

PLOS ONE Highlights

- Volume 6, Number 1, 2011, published 14,000 articles
- 100% Open Access

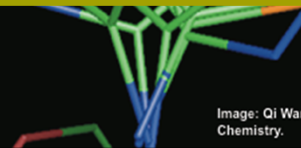


Image: Qi Wang et al. PLoS ONE. Chemistry.

PLOS one: Explore by Subject

Anesthesiology and Pain Management
Biochemistry
Biophysics
Biotechnology
Cardiovascular Disorders
Cell Biology
Chemical Biology
Chemistry
Computational Biology
Computer Science
Critical Care and Emergency Medicine
Dermatology
Developmental Biology
Diabetes and Endocrinology
Ecology
Evidence-Based Healthcare
Evolutionary Biology
Gastroenterology and Hepatology
Genetics and Genomics
Geriatrics
Hematology

Microbiology
Molecular Biology
Neurological Disorders
Neuroscience
Non-Clinical Medicine
Nutrition
Obstetrics
Oncology
Ophthalmology
Otolaryngology
Pathology
Pediatrics and Child Health
Pharmacology
Physics
Physiology
Plant Biology
Public Health and Epidemiology
Radiology and Medical Imaging
Respiratory Medicine
Rheumatology
Science Policy

RESEARCH ARTICLE



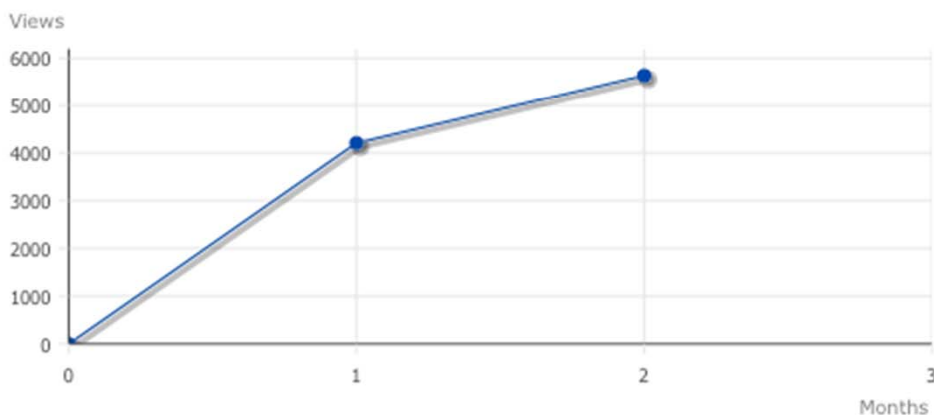
The Illusion of Owning a Third Arm

[Article](#)[Metrics](#)[Related Content](#)[Comments: 1](#)

Article Usage

Total Article Views: **5635** from **Feb 23, 2011** (publication date) - **Mar 9, 2011***

Breakdown by View Type

HTML Page Views: **5049**PDF Downloads: **567**XML Downloads: **19****Cumulative Views** from **Feb 23, 2011** (publication date) - **Mar 9, 2011*** **Download:** [PDF](#) | [Citation](#) | [XML](#) **Print article** **EzReprint** New & improved!

Metrics

Total Article Views: **5635****Average Rating** [\(0 User Ratings\)](#)☆☆☆☆☆ [See all categories](#)[Rate This Article](#)[More](#)

Related Content

Related Subject Categories[Neuroscience](#), [Mental Health](#)**Related Articles on the Web**[Google Scholar](#)[More](#)

Share this Article

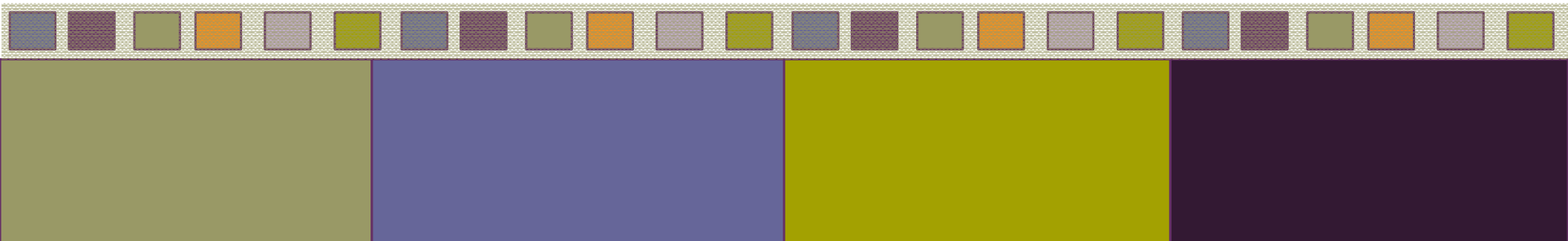
 [Email this article](#)

peer review

certification selection

sound methodology

interest/importance





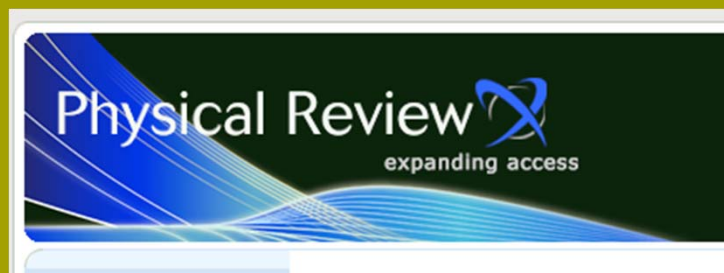
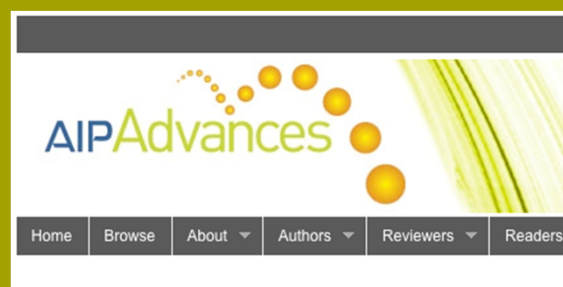
PLOS one

accelerating the publication of peer-reviewed science

Login | Create Account

Search articles...

GO



*momentum from researchers and funders
(including universities)*

OA Repositories

The image displays a collage of four open access repository websites. The top-left corner shows the Cornell University Library logo. Below it is the arXiv.org logo, which includes the text 'Open access to 668,198 e-prints in Physics, Mathematics, and Engineering' and a subject search dropdown menu set to 'Physics'. The top-middle section features the IDEALS logo, with the text 'Illinois Digital Environment for Access to Learning' and a small image of a person. The bottom-left section shows the Digital Commons @ IWU logo, with the text 'Digital Commons @ Illinois Wesleyan University' and a search bar. The bottom-right section shows the Digital Commons @ IWU logo, with the text 'Digital Commons @ IWU' and a search bar. The bottom-right section also includes a sidebar with links to 'My Account', 'FAQ', 'About', and 'Home', and a search bar with the text 'Enter search terms:'. The main content area of the bottom-right section is titled 'Browse Research, Scholarship and Creative Work' and lists several categories: 'Schools, Departments or Programs', 'Individual Faculty & Staff Pages (SelectedWorks)', 'Journals and peer-reviewed series', and 'Conferences & Events'. Below these categories is a paragraph describing the repository's mission: 'Digital Commons @ Illinois Wesleyan University (DC@IWU) reflects the nature of the intellectual, creative and scholarly culture of our campus. DC@IWU serves as the central location for outstanding student work, faculty scholarship, University records, and campus history. Our goals are to:'. The goals listed are: 'Promote and disseminate academic and creative achievements of students and faculty', 'Ensure preservation of and persistent access to said work', 'Increase discovery of IWU scholarship and artistic expressions', 'Foster scholarly collaborations with colleagues', and 'Document and record IWU's history and progress'. The bottom-right section also includes a sidebar with links to 'SelectedWorks', 'Log into SelectedWorks', 'Set-up Instructions (Campus Access Only)', 'Browse', 'Collections', 'Disciplines', and 'Authors'.

Cornell University Library

arXiv.org

Open access to 668,198 e-prints in Physics, Mathematics, and Engineering

Subject search and browse:

21 Jan 2010: Collaborative support plan announced
8 Apr 2009: Added public author identifiers, Facebook
See cumulative "What's New" pages. Read robots.txt

Physics

- Astrophysics ([astro-ph new, recent, find](#))
Includes: Cosmology and Extragalactic Astrophysics
- Condensed Matter ([cond-mat new, recent, find](#))
Includes: Disordered Systems and Neural Networks
- General Relativity and Quantum Cosmology
- High Energy Physics - Experiment ([hep-ex new, recent, find](#))
- High Energy Physics - Lattice ([hep-lat new, recent, find](#))
- High Energy Physics - Phenomenology ([hep-ph new, recent, find](#))
- High Energy Physics - Theory ([hep-th new, recent, find](#))
- Mathematical Physics ([math-ph new, recent, find](#))
- Nuclear Experiment ([nucl-ex new, recent, find](#))
- Nuclear Theory ([nucl-th new, recent, find](#))
- Physics ([physics new, recent, find](#))
Includes: Accelerator Physics; Atmospheric and Space Physics; Geophysics; History and Philosophy of Physics
- Quantum Physics ([quant-ph new, recent, find](#))

Mathematics

- Mathematics ([math new, recent, find](#))
Includes (see detailed description): Algebraic Geometry; Functional Analysis; General Mathematics; Group Theory; Operator Algebras; Optimization and Control Theory

Nonlinear Sciences

- Nonlinear Sciences ([nlin new, recent, find](#))
Includes (see detailed description): Adaptation and Self-Organization

Computer Science

IDEALS

Illinois Digital Environment for Access to Learning

Digital Commons @ IWU

Illinois Wesleyan University

My Account FAQ About Home

Browse

- IDEALS
- Titles
- Authors
- Subjects
- Date
- Communities

My Account

- My IDEALS
- Submit a New Item
- My Profile
- Logout

Administrative

- Access Control
- People
- Groups
- Authorizations

Registries

Browse Research, Scholarship and Creative Work

- [Schools, Departments or Programs](#)
- [Individual Faculty & Staff Pages \(SelectedWorks\)](#)
- [Journals and peer-reviewed series](#)
- [Conferences & Events](#)

Digital Commons @ Illinois Wesleyan University (DC@IWU) reflects the nature of the intellectual, creative and scholarly culture of our campus. DC@IWU serves as the central location for outstanding student work, faculty scholarship, University records, and campus history. Our goals are to:

- Promote and disseminate academic and creative achievements of students and faculty
- Ensure preservation of and persistent access to said work
- Increase discovery of IWU scholarship and artistic expressions
- Foster scholarly collaborations with colleagues
- Document and record IWU's history and progress

Enter search terms:

[in this repository](#)

[Advanced Search](#)

Notify me via email or RSS

SelectedWorks

- [Log into SelectedWorks](#)
- [Set-up Instructions \(Campus Access Only\)](#)

Browse

- [Collections](#)
- [Disciplines](#)
- [Authors](#)

*momentum from researchers and funders
(including universities)*



OA Mandates

Harvard (9 schools)

MIT

Kansas

Oberlin

Duke

and others (<http://roarmap.eprints.org>)



momentum from researchers and funders



eLIFE

About

The Journal

News

eLife Labs

Contact

Ground-breaking science,
selected by experts,
published without delay,
open for greater influence.

eLife is a researcher-driven initiative for the very best in science and science communication. We promote rapid, fair, and more constructive review. We will use digital media and open access to increase the influence of published works. We commit to serving authors and advancing careers in science. At eLife,

Publishing is just the beginning.



THE ELIFE INITIATIVE

Ours is a unique collaboration between researchers and three influential funders of research in life science and biomedicine to advance science through effective research communication. [Learn more.](#)



THE JOURNAL

The first aim of the initiative is to launch a top open-access journal covering basic biological research through to applied, translational, and clinical studies. [Learn more.](#)



ELIFE LABS

With eLife, the scientific community is taking a new, collaborative approach to research communication. eLife Labs is our space to share and discuss goals, new developments, experiments, and challenges. [Learn more.](#)



RECENT NEWS

[Open sesame \(The Economist\)](#)
April 17, 2012

...The Wellcome Trust, a medical charity that pumps more than £600m (\$950m) a year into research, already requires open access within six months of publication, but the compliance rate is only 55%. The charity says it will "get tough" on scientists who publish in journals [...read more.](#)

SUPPORTED BY

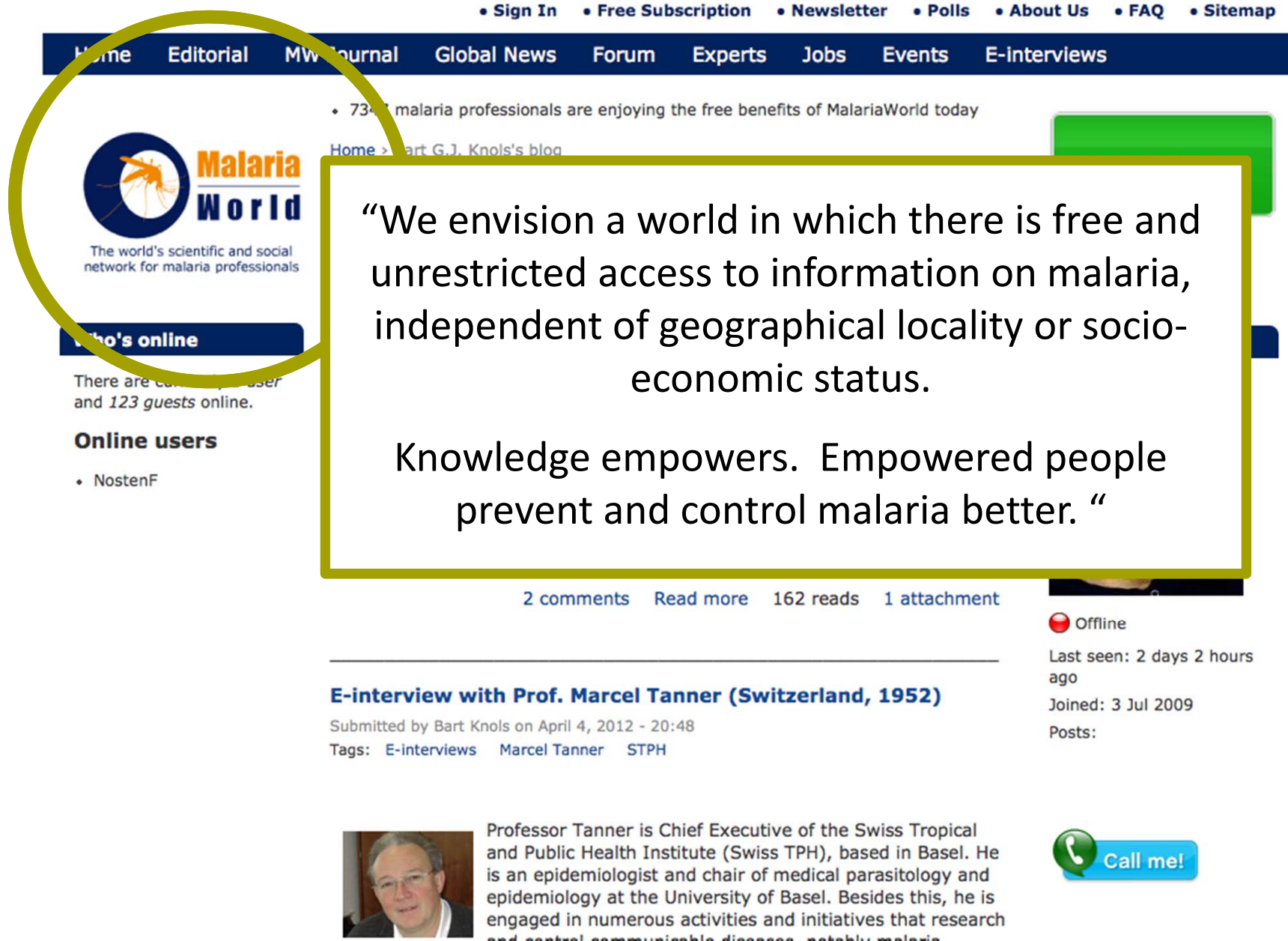
HHMI
HOWARD HUGHES MEDICAL INSTITUTE



MAX-PLANCK-GESellschaft

wellcome trust

momentum from researchers and funders



• Sign In • Free Subscription • Newsletter • Polls • About Us • FAQ • Sitemap

Home Editorial MW Journal Global News Forum Experts Jobs Events E-interviews

♦ 734 malaria professionals are enjoying the free benefits of MalariaWorld today

Home > Bart G.J. Knols's blog

 **Malaria World**
The world's scientific and social network for malaria professionals

Who's online
There are currently 1 user and 123 guests online.

Online users
♦ NostenF

“We envision a world in which there is free and unrestricted access to information on malaria, independent of geographical locality or socio-economic status.

Knowledge empowers. Empowered people prevent and control malaria better. “

2 comments Read more 162 reads 1 attachment

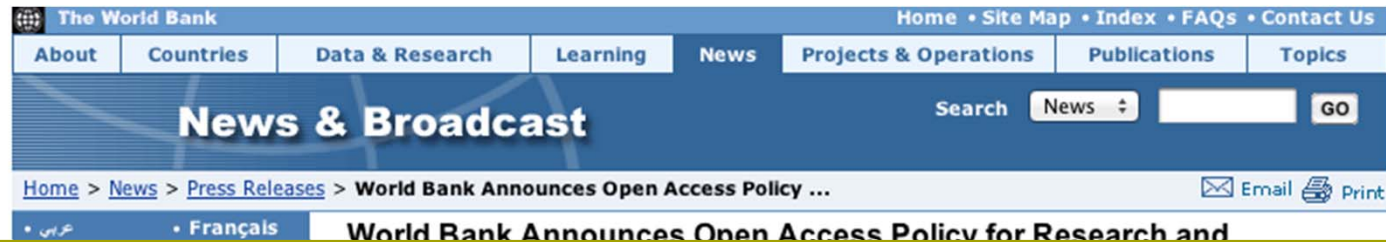
E-interview with Prof. Marcel Tanner (Switzerland, 1952)
Submitted by Bart Knols on April 4, 2012 - 20:48
Tags: E-interviews Marcel Tanner STPH

 Professor Tanner is Chief Executive of the Swiss Tropical and Public Health Institute (Swiss TPH), based in Basel. He is an epidemiologist and chair of medical parasitology and epidemiology at the University of Basel. Besides this, he is engaged in numerous activities and initiatives that research and control communicable diseases, notably malaria.

Offline
Last seen: 2 days 2 hours ago
Joined: 3 Jul 2009
Posts:

 Call me!

momentum from researchers and funders



Quoting World Bank president:

“Knowledge is power....Making our knowledge widely and readily available will empower others to come up with solutions to the world’s toughest problems. Our new Open Access policy is the natural evolution for a World Bank that is opening up more and more.”

- Issue Briefs - Results Profiles - Events and Consultations Calendar - Media Contacts Online Media Briefing Cntr Embargoed news for accredited journalists only. Login / Register Resources - About Media Team - Contacts - Data - FAQs - Online Media Briefing	<i>world's toughest problems. Our new Open Access policy is the natural evolution for a World Bank that is opening up more and more."</i> The policy will also apply to Bank research published with third party publishers including the institution's two journals—<i>World Bank Research Observer (WBRO)</i> and <i>World Bank Economic Review (WBRE)</i>—which are published by Oxford University Press, but in accordance with the terms of third party publisher agreements. The Bank will respect publishing embargoes, but expects the amount of time it takes for externally published Bank content to be included in its institutional repository to diminish over time. In support of the new Open Access Policy, the World Bank is adopting a Creative Commons Attribution (CC BY) copyright license for content published by the Bank, the most accommodating of all licenses offered by Creative Commons. It allows anyone to distribute, reuse, and build upon the Bank's published work, even commercially, as long as the Bank is given credit for the original creation. The CC BY license helps the Bank to maximize its impact while simultaneously protecting the Bank's reputation and the integrity of its content. World Bank content published by third party publishers will be available in the Open Knowledge Repository under a more restrictive Creative Commons license. The new copyright practice goes
---	---

push for access to publicly funded research



NIH Mandate

\$ 32 Billion

biomedical research grants each year

90,000

peer-reviewed articles each year

PubMed Central

A screenshot of the PubMed Central homepage in a web browser. The browser's address bar shows the URL 'http://www.pubmedcentral.nih.gov/index.html'. The page header includes the text 'PubMed Central Homepage' and 'A free archive of life sciences journals'. A large, white rectangular box with a thick yellow border is centered on the page, containing statistics about user access. Below this box, the page content is partially visible, showing sections on 'Access' and 'NIH Public Access' policy.

PubMed Central Homepage

http://www.pubmedcentral.nih.gov/index.html

A free archive of life sciences journals

500,000 users access 1M+ articles a day

25% users from universities

17% from companies

40% from general public

Access. Find out what that means.

PMC's **utilities** include an OAI service that provides XML of the full-text of some articles, functions for scripting PMC searches and linking to specific PMC articles from your site, and more ...

Looking for a modern journal article DTD? Take a look at NLM's **Journal Publishing XML DTD and schema**.

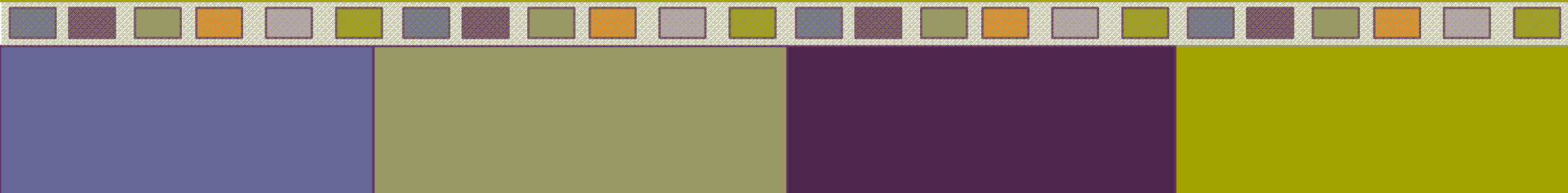
published by NIH-funded researchers in various non-PMC journals. Increasing free access to these articles is the goal of the **NIH Public Access** policy. Similar manuscripts from researchers funded by the Wellcome Trust are available in PMC as well.

Eligible researchers should use the **NIH Manuscript Submission** system to deposit manuscripts.

push for access to publicly funded research

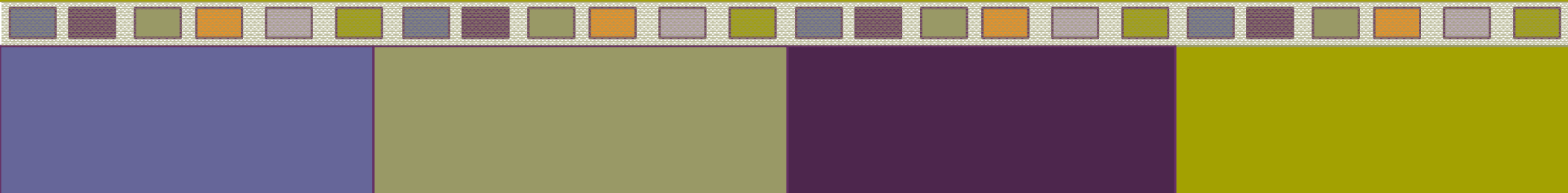
FRPAA

Federal Research
Public Access Act



push for access to publicly funded research

We the People petition movement



OA approaching a tipping point? four indicators

disaggregation of traditional publishing

rise of mega-journals

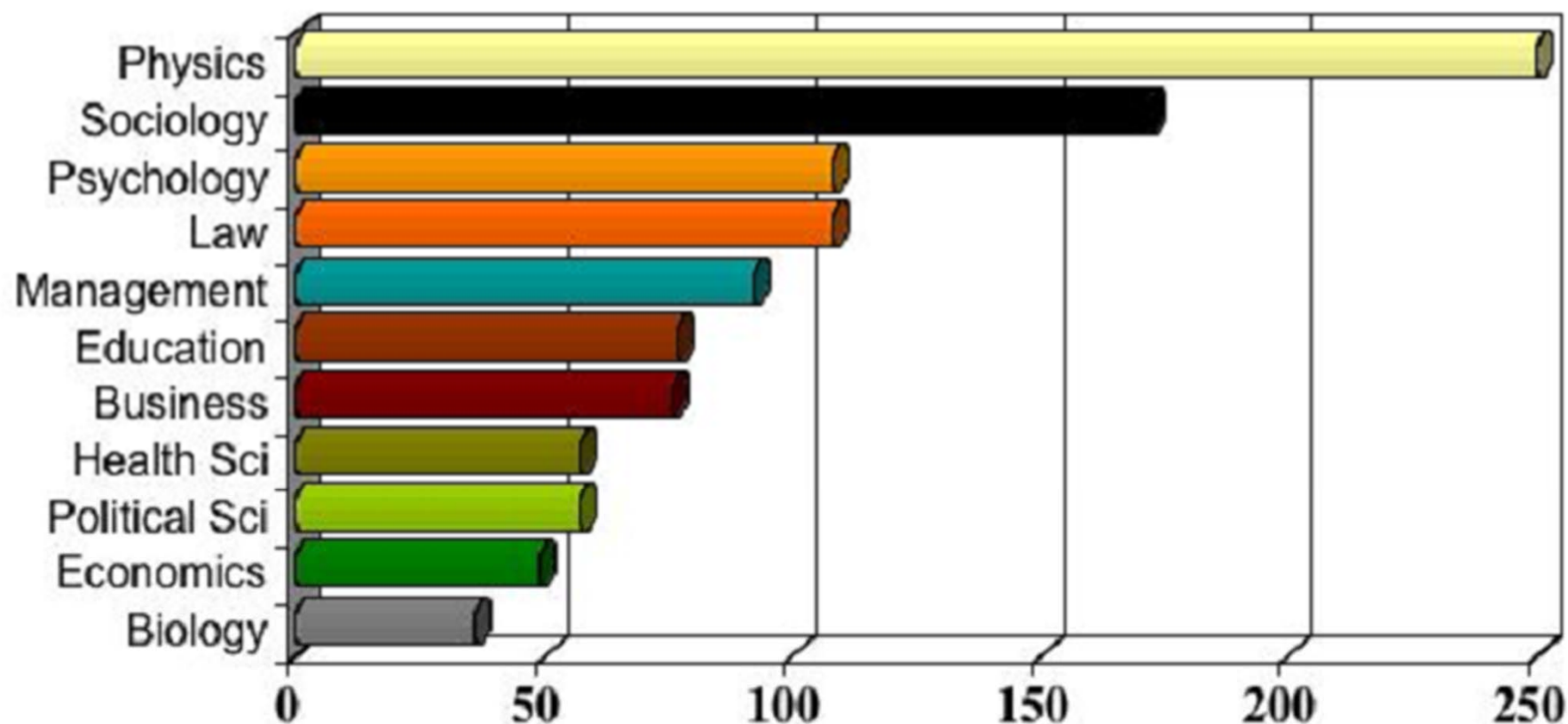
momentum from researchers & funders

push for access to publicly funded research



Arguments you can
make for open access

Open Access increases citations



% increase in citations with Open Access

From a 12-year sample of 14 M articles in ISI databases
Data: Brody & Harnad 2004; Hajjem et al. 2005



We don't know who all might
want to read our stuff

interdisciplinary readers

underfunded readers

international readers

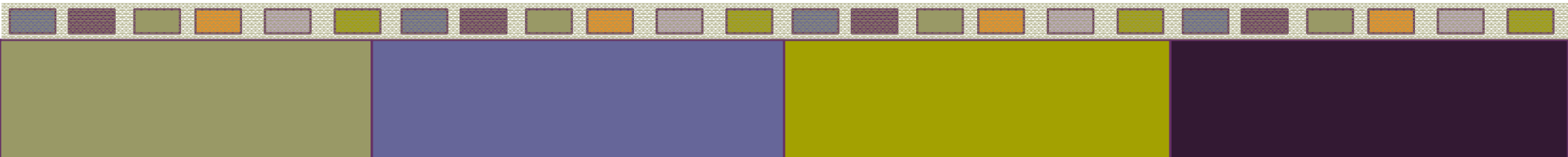
digital readers

serendipitous readers



‘Better mining’ argument

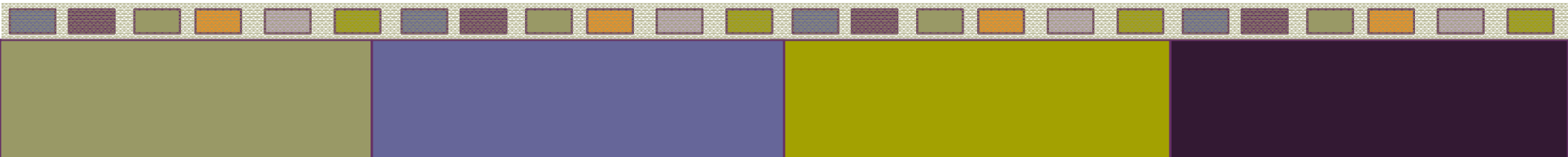
allows for better discovery within
and between disciplines
(text and data mining)





‘Public Good’ arguments

speeds invention and discovery
greater return on investment
serves mission of universities





Virtually all OA publishers offer...

better support for authors

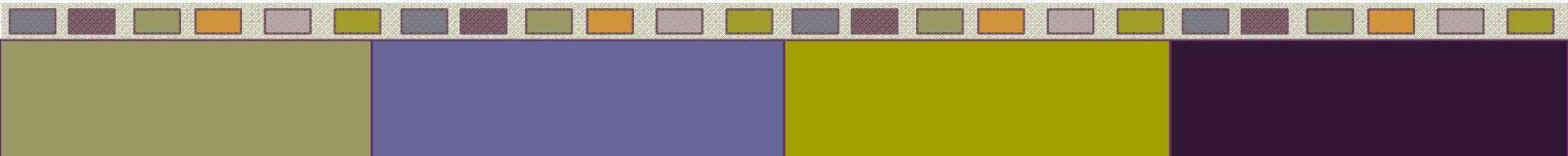
shorter time to publication

rapid dissemination

more eyes on the page

better feedback to authors about use

authors keep copyrights



Concerns you may hear about open access

?

? Hybrid Models ?

- mixed business model uncomfortable for many
- relatively low adoption rate by authors (around 2%)
- unknown impact on subscription prices
- many OA funds exclude funding for hybrid articles

For faculty who are skeptical...

Has taken time for impact factors
and reputations to build

Business models still emerging

Author pays (APC) has better
traction in the STM community

Growing challenge with
predatory publishers

OA archiving has challenges

Sustainability can be an issue

Participation of faculty typically weak
(particularly for institutional)

Confusion over what can be deposited
(post print, pre print, published version?)

Copyright issues murky and (often) frustrating

ATTRIBUTION

Screenshots used under fair use.

This work was created by Sarah L. Shreeves and Molly Kleinman. Lee C. Van Orsdel changed the template, made revisions and added new slides in May 2012. This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 United States License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-sa/3.0/us/> or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, USA.