Public Access at JLAB

Policy Implementation and Impact

Open (Public) Access Background

- Definition: Open Access (OA) literature is online, immediate, free of charge and free of most copyright and licensing restrictions.
- OA *does not* impact the peer review process.
- Two paths:
  - Green: Author self-archives in a repository
  - Gold: Author pays fee to publisher
- DOE policy uses Green OA with author's final accepted version (post peer-reviewed where applicable) + links to publisher's version of record.

Open (Public) Access Background

- Green means that the article posted on the arXiv server has to be the preprint version, not a copy of the article as it appears in the journal. But that's ok, because the reference to the journal it appears in is or can be part of the information presented in the arXiv link.

- Green means the published article can be accessed from work, but not from home.

- Gold means anyone can get to it and can read it.

DOE's Public Access Plan Highlights

- Applies to all DOE agencies, including NNSA
- Two sections: Scholarly publications & Data
- Scholarly publications has October 1, 2014 implementation date
- Office of Scientific and Technical Information (OSTI) will provide access to manuscripts in publicly accessible repositories
- Researchers will be required to submit metadata and a link to the full-text accepted manuscript (or to the full text itself) to OSTI
  - JLAB Publications Manager assumes this responsibility

Open Access Benefits to Researchers

- **Increased visibility, usage and impact for your work**, e.g. more people can read your paper and increased citation impact can be the result.
- **Boost online presence, promote your work and raise your profile** (open repositories – can provide usage data to show # times paper has been downloaded).
- **Avoid duplication of effort** by accessing and making accessible the results of your work to others in your field and beyond.
- Research has limited value when not shared – **price barriers keep papers locked away which restricts science from achieving its full potential**.
- **Text mining tools can be used** to give researchers an overall view of a field, uncover trends and make connections within their own field and between seemingly unrelated fields that no human researcher could discern – **but only if papers are accessible and not locked behind pay walls**.
- **Authors retain rights** – to share your work freely with others, post on your website or institutional repository, allow rights for others.

The Open Access Citation Advantage

Size of OA citation advantage when found (and where explicitly stated by discipline)	% increase in citations with Open Access
Physics/astronomy	170 to 580
Mathematics	35 to 91
Biology	-5 to 36
Electrical engineering	51
Computer science	157
Political science	86
Philosophy	45
Medicine	300 to 450
Communication studies (IT)	200
Agricultural sciences	200 to 600

Source "The Open Access Citation Advantage: Studies and results to date", Alma Swan, 2/2010
http://eprints.soton.ac.uk/268516/2/Citation_advantage_paper.pdf

Elements of Proposed JLAB Procedure: License

- Upon hire, under JSA's Intellectual Property Agreement, JLAB employees grant ownership of his/her scholarly articles to JSA, along with the right to exercise copyright in those articles.
- The original authors name will remain on the scholarly work.

Elements of JLAB Procedure: Distribution & Authority

- JLAB authors submit all papers to be approved in the JLAB Publications Submission and Approval system prior to distribution outside the lab.
- Each JLAB author will provide an electronic copy of the author's final accepted version of each article (can be link/citation to external pre-print service).
- Article to be provided no later than date of publication.
- Article to be provided in appropriate format, such as PDF.
- Article may be made available to the public in an open access repository.
- Procedure will be reviewed as needed.

Journal Citations & Their OA Equivalents

- Budker, Dmitry, and Michael Romalis. "Optical Magnetometry." Nature Physics 3, 227 - 234 (2007). http://www.escholarship.org/uc/item/1c79s7vb
- Chiang, Eugene, and Ruth Murray-Clay. "Inside-out Evacuation of Transitional Protoplanetary Discs by the Magneto-Rotational Instability." Nature Physics 3, 604 - 608 (2007) http://www.escholarship.org/uc/item/7jh9d3t0
- A. Deur, Y. Prok, V. Burkert, D. Crabb, F.-X. Girod, K. A. Griffioen, N. Guler, S. E. Kuhn, N. Kvaltine. "High precision determination of the Q^2-evolution of the Bjorken Sum." Phys. Rev. D 90, 012009 (2014) http://arxiv.org/abs/1405.7854
- Ford, Rupert, and Stefan G. Llewellyn Smith. "Scattering of Acoustic Waves by a Vortex." 1999. Journal of Fluid Mechanics. Volume 386. May 1999, pp 305-328 http://www.escholarship.org/uc/item/9n33k54w
- B. Dey, C. A. Meyer, M. Bellis, M Williams, (CLAS Collaboration). "Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $γp \rightarrow φp$." Phys. Rev. C 89, 055208 (2014) http://arxiv.org/abs/1403.2110
- Schroeder, Carl. "Beam Loading in a Laser-Plasma Accelerator Using a near-Hollow Plasma Channel." Physics of Plasmas, 20, 123115, December 2013 http://www.escholarship.org/uc/item/4568w4fr
- Zou, Yuhao, et al. "Cmip5 Model Simulations of the Impacts of the Two Types Of el Niño on the U.S. Winter Temperature." Journal of Geophysical Research: Atmospheres. Volume 119 (6), pp 2169-8996 http://www.escholarship.org/uc/item/97j8x15m

Resources

- White House Office of Science and Technology Policy Memorandum: http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf
- Department of Energy Public Access Plan: http://www.osti.gov/home/sites/www.osti.gov.home/files/DOE%20Public%20Access%20Plan_FINAL.pdf
- SHERPA/RoMEO - publisher copyright and self-archiving policies: http://www.sherpa.ac.uk/romeo/
- STM Publishers in support of Open Access: http://www.stm-assoc.org/publishers-support-sustainable-open-access/
- *Nature Communications* data on open access articles views and downloads: http://www.nature.com/press_releases/ncomms-report.html
- Myths about Open Access: http://libraries.mit.edu/scholarly/mit-open-access/general-information-about-open-access/dispelling-myths-about-open-access/

Open Letter to Congress signed by Nobel Prize winners – "Open access truly expands shared knowledge across fields – it is the best path for accelerating multi-disciplinary breakthroughs in research."
http://www.taxpayeraccess.org/supporters/scientists/nobelists_2009.shtml

Thank You!

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