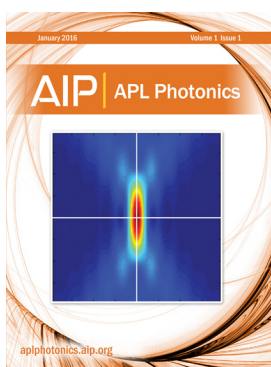




# AIP Library Matters

News for Librarians

Winter 2016



## APL PHOTONICS LAUNCHING IN 2016

The new dedicated home for open access photonics research

[aplpotonics.aip.org](http://aplpotonics.aip.org)

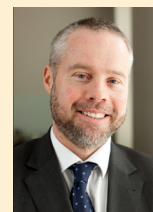
**First papers will publish in spring 2016**

*APL Photonics* is a new open access journal featuring high quality original research. It presents novel understanding and significant advances, leads to the development of key enabling technologies, and serves as a catalyst for multidisciplinary breakthroughs in the field. Its vision is to be an authoritative, peer-reviewed, rapid publication serving the entire photonics community. Through fair, fast, and rigorous peer review, the journal upholds the same reputation for quality as its parent journal, *Applied Physics Letters*.

### APL Photonics welcomes new Editor-in-Chief Benjamin Eggleton

Benjamin Eggleton, Australian Research Council (ARC) Laureate Fellow and Professor of Optical Physics in the School of Physics at the University of Sydney, earned his Ph.D. in Physics from the University of Sydney in 1996. In 2003 he became founding Director of the ARC Centre for Ultrahigh Bandwidth Devices for Optical Systems (CUDOS).

With a Web of Science h-index of 58, Dr. Eggleton has published more than 400 journal papers that have been cited over 14,000 times. He was President of the Australian Optical Society, has served as Editor-in-Chief for *Optics Communications* (2007-2015), and he currently serves on the Board of Governors for the IEEE Photonics Society.



## AIP PUBLISHING ADOPTS CC BY 4.0 FOR OPEN ACCESS ARTICLES

The next generation of Creative Commons licensing has arrived. In 2016, the recently released CC BY 4.0 licensing applies to AIP Publishing open access articles (Gold and Author Select® options). This offers the most up-to-date and flexible way for authors to share their work and comply with institutional and funding mandates and lets others distribute, reuse, and build upon work, as long as they credit the author for the original creation.

### What's new in CC BY 4.0?

- More user friendly and easier to understand
- More global license that is ready to use around the world
- Rights outside of copyright more explicitly defined, including database, personal, and moral rights
- Revised attribution requirements clarifying the process and better reflecting accepted practices
- Enables more anonymity, when desired
- Window to correct license violations extended to 30 days

"We work in tandem with representatives from the library and academic communities to develop pragmatic, sustainable solutions for public access to content," explained Susann Brailey, Manager, Rights and Permissions at AIP Publishing. "Staying current and adopting CC BY 4.0, the gold standard for open access, are the next logical steps in this process."

Under Creative Commons licensing authors are free to post the **accepted author version** of their manuscripts anywhere, anytime.

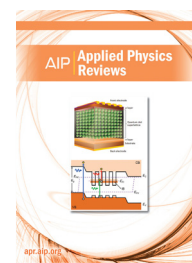
For more information about CC BY 4.0 visit <http://creativecommons.org/version4>

For more information about AIP Publishing's Open Access program visit <https://publishing.aip.org/librarians/open-access-policy>

## APPLIED PHYSICS REVIEWS

The dedicated home for cutting-edge reviews in applied physics

[apr.aip.org](http://apr.aip.org)



Indexed by  
Thomson Reuters

**As of January 1, 2016 access to *Applied Physics Reviews* will become available by subscription only.**

Subscribers will also have access to all reviews published in the Applied Physics Reviews section of *Journal of Applied Physics* prior to 2014. A substantial collection of additional review articles at your researchers' fingertips at no extra cost to subscribers.

**If you haven't already, make *Applied Physics Reviews* part of your 2016 renewal today!**

## RESEARCH DATA MANAGEMENT: ROLES AND OPPORTUNITIES FOR PHYSICAL SCIENCES LIBRARIANS

Scientists at academic and government institutions and businesses are generating data at unprecedented levels, at an increasingly accelerated pace, and with consistently decreasing costs – **the era of BIG DATA has arrived! Research Data Management (RDM) means new opportunities for librarians and information professionals across all subject disciplines.**

**Skills that physical sciences librarians already have can be leveraged to support effective RDM**

Researchers can be overwhelmed by the sheer volume of data and how to organize, analyze, and share it in meaningful ways, which in many cases is mandated by institutional and government funding agencies. **Librarians can help.** *For those of you who would like to take on this challenge, your training, experience, and talent for problem solving have prepared you to take on the proactive role of "informationist."*

Whether an RDM program is initiated by the library or results from a request from the research community, a librarian with subject discipline knowledge is typically embedded within a research group, working hands-on with its data. This brings the "power of the librarian" right into the scientists' environment and leverages library expertise.

**Here are just some of the ways in which librarians can make significant contributions to the RDM process:**

- Get involved in the project as early as you can.
- Help create the data management plan.
- Recommend tools and resources so data can be easily organized and shared and fulfill compliance requirements.
- Guide mindful data and metadata collection.
- Develop and contribute computational and statistical expertise for data analysis.
- Find data for reuse and new uses for existing data.
- Find appropriate standards so that metadata use is interoperable and data can be shared more easily.
- Support efforts to archive, place data in repositories, and preserve data from threats.

**Two valuable resources that focus on helping researchers understand how to effectively manage their data are:**

- **DCC (Digital Curation Center)** – Provides expert advice and practical help to anyone in UK higher education and research wanting to store, manage, protect, and share digital research data. [www.dcc.ac.uk](http://www.dcc.ac.uk)
- **DMP Tool (Data Management Plan Tool)** – Guides researchers on how to create, review, and share data management plans that meet institutional and funder requirements. <https://dmp.cdlib.org>

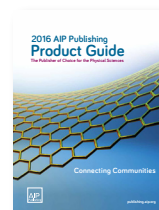
There's no doubt that Big Data is a *big deal* and will continue to grow. Perhaps your physical sciences research community is already benefiting from RDM programs in which librarians are actively involved. It's a win-win: Libraries contribute directly to driving research forward and receive recognition from the administration. Librarians use current expertise in new ways, develop new skills, and position themselves for career advancement.

**Want to find out more?**

Pinfield S, Cox AM, Smith J (2014) **Research Data Management and Libraries: Relationships, Activities, Drivers and Influences.** PLoS ONE 9(12). doi:10.1371/journal.pone.0114734 (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0114734>)

Kratz JE, Strasser C (2015) **Researcher Perspectives on Publication and Peer Review of Data.** PLoS ONE 10(2). doi: 10.1371/journal.pone.0117619. pmid:25706992 (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0117619>)

AIP Publishing extends its thanks to Lisa Federer, MLIS, MA, AHIP, Research Data Informationist, Office of Research Services, National Institutes of Health, Bethesda, MD, USA, for sharing her insights on RDM.



## 2016 AIP PUBLISHING PRODUCT GUIDE

**Connecting Communities...**

Learn more about our publications spanning

the spectrum of the physical sciences. Publications that provide **exceptional value** to researchers and librarians – and connect communities. <https://publishing.aip.org/sites/default/files/aippub/files/aip-product-guide.pdf>

## FREE INFO FOR YOUR PATRONS!

AIP is offering to send a set of information cards and holder (pictured) for your institution. You'll be informing faculty and students of free resources for the physical sciences—they simply take a card.



Send your library physical mailing address to [jbebee@aip.org](mailto:jbebee@aip.org)

## SEE AIP PUBLISHING AT THESE UPCOMING EVENTS

### ALA Midwinter 2016

Boston, MA, USA  
January 8-12, 2016  
Booth #911

### VALA2016

Melbourne, Australia  
February 9-11, 2016  
Stand #87

### Bibliostar 2016

Milan, Italy  
March 17-18, 2016

### Bibliothekskongress Leipzig 2016

Leipzig, Germany  
March 14-17, 2016

### ER&L Conference

Austin, TX, USA  
April 3-6, 2016

### ANKOSLink 2016

Antalya, Turkey  
April 7-9, 2016

### UKSG 2016

Bournemouth, UK  
April 11-13, 2016

### INFORM 2016

Prague, Czech Republic  
May 24-25, 2016

### NASIG 2016

Albuquerque, NM, USA  
June 9-12, 2016

### SLA 2016

Philadelphia, PA USA  
June 12-14, 2016

For a complete list of events visit [publishing.aip.org](http://publishing.aip.org)

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