

p.a.m Bulletin

V44(1) August 2016

News for the Physics-Astronomy-Math Division of SLA

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Message from the Chair

Debra Kolah

The year has absolutely flown by, and I have been honored to serve as the Chair of PAM. The year started out with many uncertainties, but we held together as a group, and I believe we might even be stronger now than we have been in the past few years. I am especially grateful to the work of the Future of PAM Taskforce, and the PAM Training Futures Subcommittee.

The 2016 SLA Annual Conference in Philadelphia was a wonderful experience. I truly appreciate the amount of work from all of our session moderators! The PAM Roundtables, Vendor Update and Networking Breakfast, All-Sciences Poster Session, Teaching Data Information Literacy, Librarian's Role in Research Assessment and Highlighting Value, and Ethnographic Research Methods sessions were all well-attended and substantive.

PAM is known for great gatherings and networking opportunities, and this year was no exception! A huge thank you to all who worked to make these events fun, and to our vendor partners who make them possible! A big thank you to our Philadelphia Hospitality Committee: Laura Palumbo, Lauren Gala, and Sharice Collins.

Editor: John Kromer

Assistant Editor: Anya Bartelmann

The P.A.M. Bulletin is published quarterly in February, May, August, and November.

The newly named First Night Dinner (formerly Early-Bird and Newcomers Dinner) featured amazing dim sum at Nom Wah Tea Parlor. The Open House on Monday had wonderful food, and terrific light-up eyewear. The PAM Suite Daily Retreat proved to be as wonderful as always, with special visitors Molly White and Liz Bryson making appearances and sharing in the amazing food, networking, and fun. The conference closed with the traditional PAM Tour, where PAM members visited the Mutter Museum and celebrated with a lunch afterwards. A special feature of the conference this year was the Mobile App and Passport Game, where SLA members collected photographs in a scavenger hunt. Several members of the PAMily actively participated. Alison Verbeck came in 1st in all of SLA, and Anya Bartelmann came in third! Way to represent! (And a big thank you to Kathleen Lehman for that cartwheel after the Business Meeting!)

The conference closed on a positive note—the new SLA association management company did a great job, and best of all, it has SLA back in the black financially, which makes everyone breathe easier. I am especially excited for the 2017 Phoenix conference, and the recent announcement that the 2018 SLA Conference will be held in Baltimore.

As we finish out 2016, I remain grateful for all that PAM does to support our members, and am optimistic about our new mailing list home, and the future in general. I encourage continued active participation in our conversations about the future of

PAM, and the training and mentoring that we do for new members coming into the profession, as well as, longtime members as they transition to new roles in their organization. Thanks to all of you, we are indeed PAMily!

Kind Regards,

Debra Bailey Kolah

PAM Chair

Business Meeting Minutes Kathleen Lehman

Minutes approved by PAM Executive Committee on 7/29/2016

Monday, June 13th, 2015, 8:10am Eastern Time

1. Introduction and Welcome – Debra Kolah, PAM Chair

- Moment of silence for tragic shooting in Orlando
- Introduction of advisory board
- Intro of exec board

2. Secretary report – Kathleen Lehman

- Documents that have been approved by the PAM executive board since last year's business meetings include:

2015 June 8 Board Meeting agenda with minutes

2015 June 15 Business Meeting Minutes

2016 Executive Board decisions and communication topics Jan to May

3. Treasurer's report – Margaret Lam

- PAM has approximately \$29,000 available

4. Past-Chair – Jeff Bond

- Has made some edits to practices manual
Please let Jeff know of any changes that need to be made.
- Appointments have been made to the Nominations and Elections Committee: Thanks to Susan Koskinen (chair), Linda Yamamoto, and Travis Warwick for agreeing to serve. Thank you also to Margaret Lam and Kathleen Lehman for helping to make the appointments.
- Future of PAM task force

5. Chair-Elect – Elizabeth Brown

- 2017 conference planning:
Will have the usual five PAM led sessions including round tables, vendor update and business meeting.
Can also cohost four sessions.
Emerging idea sessions are intended to be buzz worthy/emerging topics and those sessions can be proposed and approved at a later date than the main sessions.
- There will also be conference “streams” – which will be groups of conference sessions around and central topic. Sessions within the streams will focus on the topic at a fundamental, middle, or advanced learner level.
- PAM Training Futures Subcommittee Report – discussed several activities, events, or resources which could be done or created including:
Events calendar
Expert video tutorials on various topics
Monthly chats

FAQ list

Blog

Subject-focused webinars

Programing around emerging ideas

Unconference

Expert list available to the PAM community: This has already been implemented by the mentoring subcommittee:

<http://pam.sla.org/mentoring-experts/>

(password: mentor)

6. Chair report – Debra Kolah

- Thank you to the Business Meeting and Breakfast sponsors: the American Physical Society
- Future of PAM task force: Thank you to the members of the task force: Jeff Bond (chair), Margaret Lam, Zari Kamarei, Michael Fosmire, Lauren Gala, and Debra Kolah - the group was asked to consider the future of the PAM Division by:
Engaging the membership in discussion
ID challenges
Make recommendations
Give a report

As a part of these activities, the task force presented seven scenarios to the PAM community and collected feedback. While there was no clearly favored path to take, the feedback was highly valuable for considering PAM's future

- Future of PAMnet

PAMnet has been hosted by Notre Dame and managed by Thurston Miller for 18 years! (Wow and thanks!)

While the listserv archives will continue to exist at Notre Dame, they will no longer be supporting the listservs and will

be moving to Google Groups

PAM needs to decide on a solution for PAMnet (Google Groups? Listserv hosted elsewhere? Other virtual community?) and believes that it is important that the list remain open and accessible to unofficial PAM community members.

7. Future of PAM task force – Jeff Bond

- Thank you to members of the taskforce: Debra Kolah, Lauren Gala, Michael Fosmire, Zari Kamarei, Margaret Lam
 - We solicited input from the PAM community earlier this year. Comments came through a website set up for that purpose, and also via PAMnet. We presented seven “scenarios” or paths forward for PAM for people to comment upon.
1. Status quo: PAM remains as a division of SLA, and focuses its in-person programming during the SLA Annual Conference.
 2. PAM makes an attempt to merge with other SLA science-related divisions and remains as part of SLA.
 3. PAM remains as a division of SLA but hosts its own division-wide conference at a different time and location than the SLA Annual Conference.
 4. PAM remains as a division of SLA but re-focuses its programming as a pre- or post-conference associated with SLA Annual.
 5. PAM dissolves, ending its relationship with SLA. Members form a new PAM-like organization unrelated to SLA. The new organization hosts its own annual conference focused on library and information programming for physics, astronomy, and mathematics disciplines.
 6. PAM dissolves, ending its relationship with SLA.

Members work together with other STEM library groups to form a new pan-STEM library organization. The new organization would host a pan-STEM library annual conference.

7. PAM dissolves, ending its relationship with SLA. Members form a new PAM-like group which would then affiliate as a subgroup of another organization.

The comments are available to read at <https://sites.google.com/site/futureofpam> and on PAMnet. Please see the taskforce’s preliminary report for more detail of our activities. The taskforce will make a recommendation regarding the future of the division later this year after we have had more time to examine the input.

8. Other business

- Ruth Kneale: The SLA wiki is going again August first, to please get stuff off of it if you are going to need it in the future.
9. PAM Award presentations – John Kromer
 - Thank you to the other awards committee members: Sharice Collins, Marsha Bishop, and Brian Quigley.
 - Achievement Award: Donna Thompson, PAM member extraordinary, who has served in a wide variety of PAM supporting roles over the past several decades.
 - Division Award: MathJax, a platform that renders mathematics easily and beautifully on the web and which makes math more readable by assistive technologies. The award was presented to Davide Cervone, lead developer at MathJax.
 10. Louise Leckner Memorial Travel Stipends Awards, Sponsored by IOP Publishing – Cunera Buys
 - Thank you to IOP Publishing for their continued support of librarians at the SLA conference and

their commitment to the professional development of new science librarians

- Thank you also the other selection committee members: Sharice Collins, Debra Kolah, and Khue Duong
- Travel Stipend Awardees are:
 - Jessica "Jessie" Simpson: librarian at Texas Tech University Libraries
 - Heidi Tebbe: NCSU Libraries Fellow at North Carolina State University
 - Kelly Durkin: librarian at the Los Alamos National Laboratory Research Library in Los Alamos, New Mexico

11. General Announcements

- Congrats to Molly White on her retirement
- Ruth Kneale is the Division's contact for the SLA Board; please contact her with questions or concerns
- Continued discussion of the future of PAMnet:
 - Is there a place where all the archives of the listserv could be hosted together (both past and future)
 - SLA Connect is the new avenue for SLA communication, members are automatically enrolled but this platform is only open to SLA members
 - What is available internationally? (Google Groups might be a problem in this regard.)
 - Is there another organization that could host the listserv
- Jeff Bond and Ruth Kneale both report on the SLA Board meeting report:
 - More positive and optimistic than last year
 - SLA sold the building at a profit and is in a good financial situation (debt free!)
 - SLA membership was at ~6,000 in MAY

173 vendors are exhibiting at the conference (up from last year)

20 SLA staff (up from four at one point last year)

MCI USA is the management company now managing SLA and so far their leadership has been impressive.

- Ruth Kneale addressed some questions about future SLA conferences: The contract is set for Phoenix, but from there on the locations for future conferences are wide open, which will allow SLA to focus on finding venues that are the right size for current conference size. It will be cheaper in the long run to leave North Carolina as the location of 2018 and be able to look for a smaller venue. Also, because MCI manages many events, they/we now have better leverage to negotiate venue and other conference prices. Dee Magnoni, SLA president-elect for 2017, also commented that Amy Burke, SLA Executive Director is focusing on answering the question: "How do we make members successful?"
- Barbara Kern is running for SLA Board!
- Meeting attendees went around the room and did introductions
- Reminder of the IOP-hosted PAM suite
- Jessica Simpson promoted the Texas STEM conference

Treasurer's Report

Margaret Lam

June 1, 2015 to June 1, 2016

	6/1/2015	12/31/2015	6/1/2016
ASSETS			
Cash & Bank Accounts			
PAM Division	\$ 28,549.34	\$ 15,055.86	\$ 29,363.43
SLA Pooled Fund	\$ 32,057.06	\$ 29,940.89	\$ 29,770.28
TOTAL Cash & Bank Accounts	\$ 60,606.40	\$ 44,996.75	\$ 59,133.71
TOTAL ASSETS	\$ 60,606.40	\$ 44,996.75	\$ 59,133.71
INFLOWS			
	Received	Pending	Total
Dues Allotment -10/2/2015	\$ 1,675.44		\$ 1,675.44
Sponsorships	\$14,800.00	\$ 5,300.00	\$ 20,100.00
TOTAL INFLOWS	\$16,475.44	\$ 5,300.00	\$ 21,775.44
OUTFLOWS			
	Paid	Pending	
SLA 2015 Conference Invoice - 10/2/2015	\$10,495.25		
SLA 2016 Conference Travel Expenses - As of 6/1/2016	\$ 416.96		
Miscellaneous			
Postage - 3/28/2016	\$ 40.44		
TOTAL OUTFLOWS	\$10,952.65	\$ -	\$ 10,952.65

Call for Nominations

Susan Koskinen

Hello PAM Members!

This is the official call for nominations for the next PAM Chair-Elect and Secretary.

If you know of a PAM member who would be a good candidate for either position, including yourself, please let us know! It is easy, email a member of the Nominations and Elections Committee privately – (see email addresses below) with your nominations. Please DO NOT SEND over PAMnet! For explanations and duties of the positions see the PAM Practices Manual <http://pam.sla.org/manual/> and the PAM Governing Document <http://pam.sla.org/about/governing-document/>.

Please let us know if you have questions. Deadline for nominations is September 1, 2016.

We are looking forward to hearing you soon!

PAM Nominations and Elections Committee:

Susan Koskinen (Chair)

skoskine@berkeley.edu

Linda Yamamoto

linda.yamamoto@gmail.com

Travis Warwick

travis.warwick@wisc.edu

Conference Planning

Update

Elizabeth Brown

Planning is in full force for the upcoming 2017 Annual Conference in Phoenix. We plan to have the mainstay sessions many of you have requested from feedback on recent surveys, as well as co-sponsored sessions with other divisions throughout SLA. I have been in discussion with other divisions to offer some co-sponsored sessions, one with the Taxonomy division and at least one session with the Data Caucus within the Academic Division. So we should have some great co-sponsored sessions next year in addition to our PAM programming.

As we head into the new academic year, some changes have taken place in the planning cycle for the annual conference. As mentioned at the Annual Meeting, the plan is to have the usual complement of sessions as in previous years: Roundtables for Math, Physics and Astronomy, the Annual Business Meeting, and the Vendor Roundtable. Right now we have moderators in place to host these sessions. I'd like to thank Jenny Hart and Kris Fowler for agreeing to serve as co-moderators for the Math Roundtable, Therese Triumph and Sara Tompson for the Physics Roundtable, Lauren Amundson and Joy Painter for the Astronomy Roundtable, and Lauren Gala and Michael Chesnes for the Vendor Update session.

SLA has decided to make some changes to the annual conference planning deadlines and requirements. One change that should come as good news is that there is no limit to the number of sessions a division can host

individually. Was there a session we used to offer that you'd like to see offered again? Let us know! SLA is also offering tracks of programming on themes such as Intellectual Property, Assessment, and Metrics and Data Analysis.

The deadline for conference session submissions will be October 1, 2016. We should hear back from SLA HQ on approval of our conference sessions by end of this year, and preliminary PAM conference program sessions should be announced in early 2017.

Again, thanks to all who have contributed ideas and agreed to help with programming for the division. We should have a great conference next year in Phoenix and I look forward to seeing you there.

Beth

2016 Chair-Elect

**Committee
Appointments
Debra Kolah**

PAM Committee Appointments are either for the conference year (June to June) or for the calendar year. Here are the conference year appointments for 2016-2017. We will be adding a few more persons in the coming weeks. The final list will be posted on the PAM website at:

<http://pam.sla.org/manual/staff/current/>

Thank you to these members for volunteering to be in PAM leadership for Phoenix!

Awards Committee

Brian Quigley, Chair

Marsha Bishop, member

Sharice Collins, member

Fundraising Committee

Mangala Krishnamurthy, Chair

Jeffra Bussmann, Co-Chair

Hospitality Committee

Kelly Durkin, Chair

Ruth Kneale, Co-Chair

International Relations Committee

Joy Painter, Chair

Mangala Krishnamurthy, member

Professional Development Committee

Kayleigh Ayn Bohemier, Chair

Heidi Tebbe, member

Donna Thompson, member

Professional Development Mentoring Subcommittee

Khue Duong, Chair

Jenny Hart, Co-Chair

Emily Poworoznek, member

Public Relations Committee

Mea Warren, Chair

Katie Harding, member

On behalf of PAM, thank you to everyone who served in committee appointments during the 2015-2016 conference year, as follows:

Awards Committee

John Kromer, Chair

Marsha Bishop, member
Brian Quigley, member
Sharice Collins, member

Fundraising Committee

Zari Kamarei, Chair
Mangala Krishnamurthy, Co-Chair

Hospitality Committee

Laura Palumbo, Chair
Lauren Gala, member
Sharice Collins, member

International Relations Committee

Joy Painter, Chair
Mangala Krishnamurthy, member
Melanie Faithful, member

Professional Development Committee

Cunera Buys, Chair
Laura Palumbo, member
Kayleigh Ayn Bohemier, member

Professional Development Mentoring Subcommittee

Khue Duong, Chair
Jenny Hart, Co-Chair
Emily Poworoznek, member
Public Relations Committee
Martha Roseberry, Chair
Mea Warren, member

New PAMnet Listserv

Mea Warren

As of August 1st, the PAMNET listserv has a new home at the National Radio Astronomy Observatory (NRAO). All discussion posts should now be sent to pamnet@listmgr.nrao.edu, and all discussion list members have been migrated to the new platform. Any questions should be directed to Lance Utley (lutley@nrao.edu), our new mailing list administrator.

Many thanks to Thurston Miller and Notre Dame for hosting PAMNET for the last 18 years. Here are some stats he sent recently about the list:

- Currently there are 667 email addresses subscribed to PAMnet.
 - Almost 1,000 unique people have posted messages to PAMnet since August 1998.
 - More than 21,250 PAMnet messages have been archived since August 1998.
 - This is almost 1,200 posts per year with a range of 793 (2015) to 1,638 (2009). Or this is almost 100 messages per month with a range of 41 postings (Nov 2015) to 213 postings (Mar 2000).
 - The last two years (2014 & 2015) have seen the least amount of traffic of any year in the past 18 years. This year is on track to match the traffic of the past two years.
- Thanks also to Lance Utley, Marsha Bishop, and everyone who was involved with the migration. PAMNET lives on!

Mea Warren, Public Relations Chair

New PAM Mentoring Resource: Database of Experts

Jenny Hart

2016 PAM Awards

John Kromer

New to an area of PAM librarianship and need some help getting started?

PAM members with extensive experience in areas related to PAM librarianship have volunteered to consult with and mentor PAM Members in their areas of expertise. Feel free to contact these experts if you are new to a topic and need some guidance.

List of Experts: <http://pam.sla.org/mentoring-experts/> (password: mentor)

Areas of Expertise Include:

- Administration/Management
- Advancement/Promotion/Tenure
- Cataloging
- Collection Development (physics, astronomy, math)
- Data Management
- Grantwriting Information
- Literacy and Instruction
- Marketing/Public Relations
- ORCID
- Outreach
- Reference (physics, astronomy, math)
- SLA Involvement
- Systems/Automation
- User Experience

We are also looking for more volunteers to serve as experts. If you are interested contact Jenny Hart (hartj at uchicago dot edu).

The PAM Achievement Award, first given in 1997, is one of the most important ways we recognize our members and demonstrate our appreciation for their outstanding contributions to our division. This award is reserved for those recipients whose professional work is marked by distinction and dedication to librarianship in astronomy, mathematics and/or physics.

The winner of this year's PAM Achievement Award is Donna Thompson.

Donna has been a Librarian at the Astrophysics Data System (ADS) since 2001. In her role there, she is responsible for:

- Monitoring publications and meetings for inclusion of new items in the ADS database
 - Giving talks about the ADS at the SLA meeting
 - Writing handouts and flyers for scientific conferences
 - Demonstrating new capabilities and features of the ADS to scientists, educators, librarians, and students at scientific conferences several times a year
 - Selecting publications for inclusion in the ongoing historical literature project
- In addition, Donna has:
- Co-authored 54 abstracts and articles as part of the ADS team
 - Written the Smithsonian Seidell grant for processing of Observatory Publications where she supervised three library students

on the project

Donna has been an active member of the PAM Division since 1999. She has demonstrated her commitment to PAM in a variety of ways, including:

- Moderator for the Astronomy Roundtable 2016
- Hospitality Chair 2014-2015
- Fundraising Committee Chair 2014
- Moderator, Vendor Update Session 2014
- Fundraising Committee Co-chair 2013
- Awards Committee Chair 2009, 2011 and 2012
- Co-moderator PAM Division Wide Roundtable 2011
- Secretary 2008-2010
- Moderator, Special Session on Images of Librarians 2008
- Moderator, Astronomy Roundtable, 2006
- Involved in the IAU Working Group for Libraries and several of the LISA conferences, including co-chairing IAU Division B Working Group Libraries

This was the first year that Donna missed an SLA meeting since 1999! Unfortunately due to foot surgery, she was unable to attend this year, but we notified her of the award and she was very excited and appreciative. Congratulatory videos for Donna were filmed in the PAM Suite and sent to Donna after the conference. Hopefully they helped cheer her up and speed her recovery!

The **PAM Division Award** is given for a significant contribution to the literature of physics, mathematics, or astronomy, or to honor work that demonstrably improves the exchange of information in physics, mathematics, or astronomy. The contribution should also significantly benefit libraries or enhance the ability of librarians to provide service. It should be special—above and beyond the normal job requirements of the individual(s) or group concerned.

PAM is pleased to announce that MathJax is the winner of the 2016 PAM Division Award.

MathJax is a platform that renders mathematics easily and beautifully on the web, but one of their goals from the beginning has also been to make math more accessible to assistive technologies. To achieve this, MathJax has developed many interesting features for screen reader technology. Mostly, this has involved taking MathML and adding semantic features.

Math notation in its current form (TeX) is more about how it looks than what it means. MathJax has developed code that interprets the symbols to give more semantic understanding of the mathematics in order to voice it properly. Readers who use screen reader technology used to be able to have mathematics read to them using MathPlayer, which was only available for Internet Explorer, but the MathJax solution will work across browsers.

The semantic enrichment of the notations in TeX or MathML will also allow other features, such as collapsing equations displayed

on mobile devices in a rational way. Readers can then open the parts of the equation that they want to examine more closely.

MathJax serves over 100 million unique web addresses per month and they partner with countless publishers, and is also used in arXiv, Wikipedia, Moodle, and blogs. More information about MathJax can be found at

<https://www.mathjax.org/>

The award was presented on June 12th, 2016, at the annual PAM Business Meeting. Davide Cervone, lead developer at MathJax, was in attendance to accept the award on behalf of MathJax.

Physics Roundtable

**Anya Bartelmann and
Mea Warren**

The Physics Roundtable focused on changes to physics librarianship, specifically collections, reference and user services, and scholarly publications from a publishing perspective, and featured presentations by three invited speakers, followed by roundtable discussions.

**Kathleen Lehman, User Experience Librarian,
University of Arkansas**

With five years as Head of the Physics Library at Arkansas, Kathleen spoke about crafting collections, and why and how subject knowledge is vital for reference and user services and how it can influence collection building and management. She pointed to attending departmental colloquia and national conferences as an important part of being visible to

the department's faculty and about using these connections to help grow the collection in areas important to the department's research. Participation was seen as an investment in faculty and graduate student research; in turn, library users were more invested in the collection and contacted the library with suggestions for purchase. Kathleen did a short study comparing circulation of materials based on the originator of the purchase, sampling 219 items, and comparing the selector: librarian, faculty appointed liaison, graduate student, faculty, gifts, etc. The selections made by patron request tended to circulate more on average than librarian selections, but both were far more than monographic series/continuation titles and gifts. In her new role, to do a similar study with a larger group of selectors but where not all the data about who initiated each purchase was not accessible required a look at usage from Interlibrary Loan and Purchase on Demand programs. The data suggests continuation and expansion of both programs to build collection rather than finding a case against selector subject funds.

Stella Ota, Physics Librarian, Stanford University

Stella began her presentation with an introduction of her 16 years as a physics bibliographer and librarian, and how collections changed during that time. The challenges started with cancelling serials and continued into the Great Recession; the closure of the Physics Library resulted in a switch to majority electronic purchasing, print materials moving offsite, and selected print moving to new Engineering Library. Stella presented three main changes that especially impacted physics collection development: 1) Loss of title-level selection and de-selection: Over time, the ability to judge each title on its own merits was lost, as multiyear agreements expired and costs were too great. The newest ebooks are often out of reach even as ebook packages expanded, title-level

selection is not available and selectors can only buy collections. 2) Migration away from print and the scientific record: Faculty were firm on the necessity of print archives, not compromising the scientific record, and print collections seen as immutable. With more than ten years of stable online access, improving practices for corrections and retractions, these attitudes have drastically changed with confidence that arXiv, SPIRES, ADS, etc. are immortal. 3) Loss of user interaction and direct observational information in favor of data logs: User interaction from observations and assessment used to inform collection decisions are gone, as collections are moved offsite and more content is added online. Without these tools, work is not done as effectively, and keeping them in mind may make the practice of librarianship better.

Christian Box, Head of Sales Operations & Product Manager for eBooks Program, IOP Publishing

Chris spoke about entering the physics publishing industry with a background as an analyst for government and financial services, and how much data is available in publishing at a global level. Published works create genuine links and an analysis of what is happening across the entire scientific landscape; this makes it possible to see the direction of science. Looking backwards at the publications allows a view through citation networks where articles can be associated and patterns understood in a way not previously known. IOP started to use semantic webs in discovery to help users identify related content beyond reference lists and understanding what other users read. They created a thesaurus of term and together with statistical analyses this was used to create a machine readable understanding of the content on IOPscience, called fingerprinting, which highlights important terms in

an article. The more frequently the term is used, the more important it is in a paper; terms compared between two articles show a level of relatedness. The wider landscape of relatedness creates semantic cluster maps—visual representations of relatedness between individual or multiple publications, and across broader categories like optics. Besides the semantic fingerprinting, Chris demonstrated how tagging is used to make the process effectively human readable, and showed an example of newly found connections between seemingly unrelated topics: astronomy and biological sciences, as telescopes and medical imaging use the same kind of technology.

After the presentations, participants joined roundtable discussions centered on collections, reference, and outreach. Discussions included helping users to see more than Google Scholar, how to find proprietary research and classified documents, increasing user interested in services like ORCID, how librarians are using and teaching BibTex/LaTex, and discussions of ebook sharing with consortia and purchasing with shared content in mind.

Astronomy Roundtable

**Kayleigh Bohemier and
Donna Thompson**

The 2016 Astronomy Roundtable focused on the research life cycle and began with three lightning presentations. Following the presentations, attendees broke into five groups, where they brainstormed and discussed librarians, information resources in astronomy, and the research life cycle.

Joy Painter (Caltech) described the research environment at Caltech, where they are embedded in the research life cycle through leveraging their institutional repository (IR). They also have e-print group fields to track publications from specific institutional affiliate groups and centers. The IR export features have become exceptionally helpful for grants managers, media and foundation relations, and annual report production. She touched on services, such as OverLeaf's thesis template and the Authorea collaboration tool.

Brett Rubinstein (IOP) talked about how librarians fit into the creation of new content at IOP, especially in the current project to create a new astronomy ebook collection available through IOP. Feedback from librarians has been enormously helpful to them as they develop models for publishing and selling the content.

Jane Holmquist (Princeton) gave an update on the Unified Astronomy Thesaurus, specifically the collaborative effort to streamline and verify the ontological associations between topic areas. Members of the UAT team facilitated the updates by talking to faculty and researchers about UAT sections. The changes were passed on to the Harvard-Smithsonian Center

for Astrophysics, and members of the research, library, and publishing communities hope the revised edition more closely matches what researchers would need for assigning topical categories to their work.

Heidi Tebbe (NCSU) worked with scientists to create a dynamic display of solar data at the library. The event was publicized across the institution, including a visualization seminar, a lunch, and opening night talk about the data and art. The outreach event resulted in a new wall exhibit, but also connected people in the field, data visualization enthusiasts, and the public to interesting research happening in the sciences.

At the breakout tables, participants reacted to a five-stage research life cycle model. At the **generating ideas** table, participants discussed how researchers and faculty generate their ideas and how they interact with librarians during the process. At the second table, **finding collaborators**, the conversation turned to new and old ways of locating collaborators through peers, conferences, labs, journals, and databases — and how these methods are changing with tools such as Mendeley, ResearchGate, and Facebook groups.

At the third table, **getting grants**, participants identified that people are not necessarily coming to the library to look at metrics related to their grant performance, and librarians don't often know what is happening during the submission process. Researchers are highly competitive both internally and externally for a limited number of instruments. At the fourth table, **supporting the data collection, organization, and gathering**, table members discussed how faculty and researchers know librarians are qualified and experienced in information science (and often bibliometrics). They also discussed librarians in advisory roles, in which librarians help advise on where to publish, compile personal dossiers, and promote tools

such as ORCID. At the **dissemination** table, contributors focused on student groups, press releases, and the arXiv and how the data, paper, and supplements create value.

It was a great conversation — see everyone in Phoenix next year!

Math Roundtable

Aaron Lercher and Jeff Bond

This year's Math Roundtable featured two invited speakers: Mea Warren of the University of Houston Library, and Chuck Weibel of the Rutgers University Mathematics Department. Warren spoke about her experience with weeding the mathematics collection in her library and ideas about best practices. Weibel talked about his experience on an editorial board that quit a major journal publisher (Springer) and then created their own journal. Each talk generated a lot of discussion.

Warren talked about the labor and time intensiveness of weeding and the problem of setting criteria. Weeding math is especially difficult. The demand for print is stronger and more persistent in math than in other sciences. But the nature of this demand is hard for librarians to judge: Why does it exist? How long will it persist? The difficulties in weeding math are then compounded by the abstruse character of mathematics literature. Warren concluded that we need both to cut and to conserve.

Weibel talked about the hard-to- classify mathematics of K-theory and told the saga leading to the founding of Annals of K-Theory, now published by Mathematical Sciences Publishers. The

story began in 2007 with the resignation of the entire board of editors of K-Theory, which was then published by Springer, but which ceased publication in 2008 and whose content is now housed at www.portico.org. Weibel gave two reasons why the editors were displeased with Springer. One was the journal's subscription prices. The other was that the editors were angry that Springer's processing of manuscripts added many mistakes to manuscripts that had already been diligently copy-edited in the course of the journal's reviewing and editing process.

The editors incorporated their own journal, Journal of K-Theory, published by Cambridge University Press. But a new problem arose when the corporate structure, under the German law the new journal was incorporated under, allowed one member of the group to control the corporation, including copyrights to articles. This resulted in a conflict between that member of the group and the rest, leading the others to quit a second time and to found a second new journal, Annals of K-Theory. Journal of K-Theory ceased publication in 2014.

Among the lessons that Weibel drew from this experience was the need to consult lawyers from the start. For librarians, Weibel's story about K-theorists and their journals raises questions about the relationships between editors and authors with publishers, as well as about the replicability of the Annals of K-Theory for other, less-recondite branches of mathematics, and for other sciences.

All-Sciences Poster Session

Debra Kolah

For those who are interested in the posters that were presented at the All-Sciences Poster Session in Philadelphia, they are available at <http://scitech.sla.org/ase-2016-posters/>.

Vendor Update

**Michael Chesnes and
Margaret Lam**

Thanks to Margaret Lam, early morning SLA attendees on Tuesday, June 14 were treated to lightning talks by an unprecedented 18 vendor representatives representing all the PAM disciplines and allied subjects. Margaret enforced a strict 6-minute limit for each lightning talk, so that a large amount of information was efficiently packaged into our 2-hour time slot. Here are some highlights from the following vendors, arranged according to theme:

- 1) American Association for the Advancement of Science (AAAS)
- 2) American Astronomical Society (AAS)
- 3) American Institute of Physics (AIP) Publishing
- 4) American Mathematical Society (AMS)
- 5) American Physical Society (APS)

- 6) Association for Computing Machinery (ACM)
- 7) Cambridge University Press
- 8) Duke University Press
- 9) Elsevier
- 10) Institute of Electrical and Electronics Engineers (IEEE)
- 11) Institute of Physics (IOP) Publishing
- 12) The Optical Society (OSA)
- 13) Project Euclid
- 14) ProQuest
- 15) Springer Nature
- 16) Taylor & Francis
- 17) Thomson Reuters
- 18) World Scientific Publishing

Partnerships

ACM is a partner on a variety of initiatives, in a leadership role for CHORUS, CrossRef, ORCID, and CLOCKSS, and as a member of Portico. The IBM Watson Institute has added widgets to the ACM Digital Library which provide links to recent authors with related interests, and concepts in an article.

AIP is a member of a number of partners, including CrossRef, ORCID, the Copyright Clearance Center, and CLOCKSS. It has publishing partnerships with societies, such as the Acoustical Society of America and Laser Institute of America, and with professional development websites such as Careers Toolbox, The Physics Nucleus, and

GradSchoolShopper.

Supporting Authors

AAAS is implementing the PRE 3rd party peer review service for its journals.

AMS has a section for author profiles on MathSciNet, which is integrated with both its search features and the related Mathematics Genealogy Project.

Project Euclid has a dedicated page for independent authors, who retain rights to their work. <http://projecteuclid.org/euclid.bia/>.

Supporting Librarians

Duke University Press has an associated LibGuide with a librarian profile for PAM member Michael Peper.

AMS has a page for librarians on its MathSciNet portal, as do Project Euclid and the World Scientific Publishing Company (WSPC). World Scientific's platform has administrative features for librarians to manage site features such as IP ranges, and OpenURL linking for integrating with library catalogs. World Scientific also offers to help librarians with marketing and promotional campaigns, including trials, advertising materials, and giveaways.

New Titles

AAS and IOPP are working on an ebook collection in a variety of astronomical disciplines, including high energy phenomena, interstellar matter, instrumentation, software, and laboratory astrophysics.

IEEE is adding to its standards collection, including

the 2017 National Electrical Safety Code.

Among the featured journal titles indirectly related to PAM subjects were Science Robotics from AAAS and Technology from World Scientific. Also noteworthy were Environmental Humanities from Duke University Press, and 2D Materials from IOPP, which is largely about graphene.

New Interfaces

AAS / Science is migrating its journals to the JCORE platform.

IEEE is implementing the InnovationQ Plus search tool in partnership with IP.com This interface is outside of IEEE Xplore, and searches both IEEE content and intellectual property.

IOPP is including videos with its ebooks, containing abstracts and supplementary material.

Taylor & Francis is offering additional functionality through embedding interactive Colwiz PDFs, MathJax, figshare, Kudos, DataCite, and JournalMap in its interface.

Citation Services

Elsevier has added capabilities to Scopus, including a Cited References Project which indexes articles back to 1970 which are already cited by papers in Scopus. Elsevier has also incorporated traditional metrics and altmetrics into a single display.

Taylor & Francis has instituted toll-free linking (TFL), which is its name for granting access to Taylor & Francis papers cited by another Taylor & Francis paper that a user can already access.

Thomson Reuters has added to Web of Science an

Emerging Sources Citation Index, for literature from countries which have recently increased their scientific publishing output, Usage Counts at an article level which can supplement and in some cases serve as a substitute for citation metrics, an EndNote Manuscript Matcher, which can recommend journals for publishing a manuscript, and an tool for author disambiguation.

Funding Sources

OSA has a variety of responses to public-access compliance mandates, including prompting authors when submitting articles to choose an affiliation from among CrossRef's Open Funder Registry <http://crossref.org/fundingdata/> and using Schematron <http://www.schematron.com/> a hierarchical non-grammatical computer language, to verify the names of funding institutions, and public access to accepted manuscripts once they are past the embargo phase.

ProQuest has an initiative called Pivot, integrated with ORCID, which enables authors, or potentially any end user, to search for funding sources relevant to an author's profile.

Thomson Reuters is now a registered service provider of VIVO <http://www.vivoweb.org/> an open source software package for author and institution profiles, which can also help locate relevant funding sources.

Members Corner

Anya Bartelmann

Lydia Fletcher takes over from Molly White as Physics, Math, and Astronomy Librarian at UT-Austin starting August 15.

Kathleen Lehman, User Experience Librarian at the University of Arkansas, Fayetteville, was officially promoted to Associate Professor with tenure on July 1, 2016.

Laura Palumbo was recently selected as a presenter for the ACRL Research Data Management Workshop Roadshow, "Building Your Research Data Management Toolkit: Integrating RDM into Your Liaison Work". She will be teaching day long workshops with another presenter at institutions across the country, several times during the year. Last year's description is here: <http://www.ala.org/acrl/rdmroadshow>

Longtime PAM member **Sara Tompson** was thrilled to receive the SLA Aerospace Section's George Mandel Award at this year's annual conference in Philadelphia. Mandel was a member of the aerospace industry library community for 30 years. He was the driving force behind the compilation and publishing of the NASA N Numbers to DOD AD Numbers. This is essentially a career award.



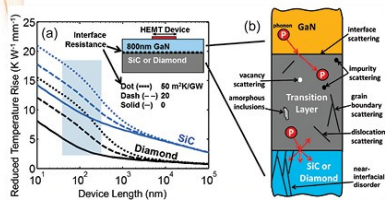
Gabrielle Hysong [left], Chair of the Aerospace Section of the Engineering Division of SLA, presents award to Sara Tompson.

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