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Trends in the Health Sciences and Biomedical Sciences Information Landscape

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Against the Grain

“Linking Publishers, Vendors and Librarians”

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Trends in the Health Sciences and Biomedical Sciences Information Landscape

by **Ramune K. Kubilius** (Collection Development / Special Projects Librarian, Galter Health Sciences Library & Learning Center, Northwestern University Feinberg School of Medicine) <r-kubilius@northwestern.edu>

Responding to encouragement from *ATG* editors, every few years, an opportunity arises to invite colleagues from the health sciences library community to share their insights.¹ In a series of articles, the contributors provide a view of the landscape. What are health sciences libraries (or their larger institutions) “building” (acquiring, collecting, licensing) these days? Where have health sciences librarians’ skills and interests led (or where could they potentially lead)? What services are being offered? In 2018, some of the eight contributions build on themes touched upon in previous *ATG* health sciences special issue compilations, while others reflect on new or different themes. This issue addresses technology, metadata, special library services (taxonomy, peer review), health literacy, One Health, eBooks, new medical school libraries, and institutional repositories.



In 2011, **Stephanie Kerns** addressed “*Medical Education and Mobile Technology: The Next 100 Years.*” In this special issue, **Jason Lilly** and **Kellie Kaneshiro** overview technology and libraries, not limiting themselves to mobile technology or technology tied to medical curricula. Library Director **Gabriel Rios**, answered some questions in a May 2018 **NEJM LibraryHub** posting (<https://libraryhub.nejm.org/>) on “Dipping a Toe into Emerging Technologies.” The authors continue the thread, overviewing a few products, services, trends in technology medical libraries provide (or might want to have), addressing also the questions of who is requesting them (and for what purpose), as well as who is paying.

Joelen Pastva and **Tony Olson** overview changes, trends, and changes for cataloging and metadata in health sciences libraries. The work of this unit and its

team involves collection management, cataloging, as well as metadata services that help ensure and enhance health sciences resource management, access, and discovery. There are increasingly more and varied applications for these skills and services.

In the 2014 special issue, **Mary A. Hyde** wrote “*Health Association Libraries: The Spackle Needed for Member Societies.*” In this issue, **David Bender** also hones in on special librarians’ contributions to their parent organizations, but as an “embedded” librarian rather than one working in a full-service, more “traditional” library. Playing off the use of “accidental” as used in the titles of books by special librarians **Affelt** and **Hedden**,² he

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If Rumors Were Horses



Look! **Katina’s** granddaughter, **Porter**, is already writing her first novel. Must be in the genes.

Greetings everyone! Happy hot summer! So much exciting and sad news this time.

Our friend and colleague, **Martha Whittaker** passed away on May 31st at 8:04AM, with her daughter **Gretchen Mueller** and her husband **Christopher Mueller** at her side. **Martha** was seminal in the development of the **Fiesole Retreats** and the **Charleston Conference**. She was recently a judge in the **Fast Pitch competition** in 2015. **Martha** retired in January 2018 from her position as **Manager of Sales at the American Society for Microbiology** in Washington DC, a post she held for five years. She also served as **Director for Content Management at Gelman Library, George Washington University**

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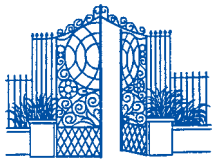
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writes how he came to his current professional undertakings in a professional association. He describes the creation and application of controlled vocabularies, indexing, and other activities that support diverse publishing and knowledge management projects of the health professional association, **RSNA**. The **Radiological Society of North America** annually hosts the world's largest medical meeting in Chicago, IL, has 54,000 members from 136 countries across the globe (<http://www.rsna.org/AboutRSNA.aspx>, viewed 6/5/2018), and is responsible for producing a wide array of professional and continuing education resources as well as tools.

A matter of continuing attention is health literacy of communities (including patients and the public), and that includes roles for libraries. In 2017, the **National Network of Libraries of Medicine/National Library of Medicine (NNLM/NLM)** South Central Region (<https://nnlm.gov/scr>) offered webinars entitled "How to Make the Case for Integrating Health Literacy Throughout Your Organization" and "Partnering with Community Health Workers." In this **ATG** issue, **Katherine Chew** overviews information outreach activities, services, and

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a remarkable four-decade career in scholarly publishing. She joined **Elsevier** in 1976 and ushered in many pioneering initiatives, including projects that led to the development of **Elsevier's** flagship ScienceDirect. And despite the discord between **Elsevier** and the library community over the years, **Hunter** always stood out, and was deeply admired and valued by librarians. 'Relations between academic publishers and research libraries have often gone through difficult times,' notes a remembrance on the **Elsevier** website, 'and, uniquely among publishing executives, **Karen** was able to genuinely communicate and negotiate.'" **Karen** attended the very first **Fiesole Retreat** in Italy in 1999. She was an incredible woman — a librarian, an administrator, and a humanist. We all loved her. May she rest in peace.

<https://www.publisher-weekly.com/pw/by-topic/industry-news/Obituary/article/77259-obituary-elsevier-s-karen-hunter.html>

Switching gears, **CU Boulder Provost Russell Moore** has named the awesome **Robert H. McDonald** as **Dean of University Libraries**. **McDonald**, who currently serves

as associate dean for research and technology strategies and librarian at **Indiana University**, will assume the post on Aug. 1, 2018. "I want to welcome **Robert** to **CU Boulder**," said **Moore**. "He will bring new ideas and sensibilities to the vital work in research, information storage, dissemination and archiving done by our outstanding network of libraries. I look forward to his working with our exceptionally talented University Libraries faculty and staff in creating new ways for

our campus community to succeed." **Robert's** research interests include technology



What a happy baby! Pictured here is **Rebecca Lenzini's** newest grandson **Emory**.



Beth Bernhardt (Principal Director of the **Charleston Conference**) is over the moon about the arrival of her first granddaughter, **Laurel Elizabeth Hodan**, born on June 11. A sleeping beauty for sure!

management and integration of lean and agile frameworks, data preservation, learning ecosystems, data cyberinfrastructure and big data analytics. "I have long admired the **University of Colorado Boulder's** reputation for original thinking and innovative research. I am honored by this appointment and grateful to have

the opportunity to join the wonderful **CU** community of faculty, staff and students," said **McDonald**. "I look forward to working alongside the talented library faculty and staff to build on a legacy of excellence in research libraries." **McDonald** earned his master of library and information science degree at the **University of South Carolina** and holds a master of music degree from the **University of Georgia**. He succeeds **James "Jim" Williams**, who served as dean of libraries from 1988 to 2017. The post has been held on an interim basis by **Leslie Reynolds** since June 2017. "Leslie has been an incredible asset to the libraries and to my leadership team, and I appreciate all she has done and will

do for our university. I also wish to thank the dean of libraries search committee chair **Terri Fiez**, members of the search committee and our dedicated library staff for their help and guidance in this search," said **Moore**.

<https://www.colorado.edu/today/2018/04/30/provost-names-robert-h-mcdonald-dean-university-libraries>

Moving right along, the incredibly charming **Duncan Smith**, the co-founder and general manager of **NoveList**, created and led a team

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initiatives, building on **Patricia Pinkowski's** 2008 *ATG* article, "Trends in Consumers' Health Information Needs and Expectations."

It has been five years since the **Medical Library Association** and partners planned the 2013 conference, described in the overlying theme, "One Health: Information in an Interdependent World." Interest in One Health has by no means waned. In this issue, **Pamela Rose** surveys library and information aspects of the very interesting global, inter-related, and intersected areas that the **Centers for Disease Control and Prevention (CDC)**, <https://www.cdc.gov/onehealth/>) and other sites outline thusly: "One Health recognizes the health of people is connected to the health of animals and the environment..."

In the health sciences, journals are the predominant scholarly publishing vehicle, but books (eBooks and e-textbooks in particular) remain important and have been addressed by *ATG* articles over the years (including special issues of 2008 and 2011/2012). In this *ATG* issue, **Jie Li** and **Geneva Stagg** review one

aspect of the current eBook landscape. Their article is based in part on a poster presented at the 2017 **Medical Library Association's** annual meeting in Seattle, WA, entitled "eBook Package Subscription Model: Benefits for the Library or the Publishing Industry?"

The health education landscape is in a constant state of evolution, as demographics, institutional priorities, and national trends change. As some educational institutions close health professional programs, elsewhere programs are expanding or being newly established. In all cases, library services aim to address the schools' or programs' information needs and meet institutional priorities. In 2014, **Elizabeth Lorbeer** addressed the topic, "Where to Start? Opening Day Collections and Services for a Newly Founded Medical School." In this issue, she reflects on the first five years of the endeavor that may resonate and inform others.

Lastly, institutional and other repositories try to capture research and scholarly output with goals that include priorities of open sharing and preservation for posterity. In the 2014 *ATG* special issue **Lisa Palmer** wrote on "Cultivating Scholarship: The Role of Institutional Repositories in Health Sciences

Libraries." In this issue, she and co-author, **Dan Kipnis**, again address the theme of IRs in health sciences libraries. They overview the current medical IR landscape and share some trends that came to light as they analyzed results of a survey of medical school IRs they conducted (with **Ramune Kubilius**, compiler of this issue) in late 2017/early 2018.

Thanks to all of the authors for their contributions to this issue and to *ATG* editors for making this all possible! We hope that *ATG* readers will enjoy and benefit from reading the articles in this special issue. 🐾

Endnotes

1. Past *ATG* health sciences special issues: 2008: <http://docs.lib.purdue.edu/atg/vol20/iss5/>. 2011: <http://docs.lib.purdue.edu/atg/vol23/iss6/>. 2014: <http://docs.lib.purdue.edu/atg/vol26/iss2/>.
2. **Amy Affelt**, *The Accidental Data Scientist: Big Data Applications and Opportunities for Librarians and Information Professionals*, 2015, Medford, NJ: Information Today, Inc. **Heather Hedden**, *The Accidental Taxonomist*, 2nd edition, 2016, Medford, NJ: Information Today, Inc.

Librarians Dream of Electric Cats: A Tech Team's Journey into the World of Emerging Technologies

by **Jason Lilly** (Academic Specialist and Library Systems Manager, Indiana University School of Medicine, Ruth Lilly Medical Library) <jaalilly@iu.edu>

and **Kellie Kaneshiro** (Assistant Director for Library Technology, Indiana University School of Medicine, Ruth Lilly Medical Library) <kkaneshi@iu.edu>



Introduction

The **Ruth Lilly Medical Library's** Technology Team (Tech Team) came together at the beginning of 2015, under the guiding vision of Library Director, **Gabe Rios**. A 2018 interview with the Director was published in the *NEJM's LibraryHub*¹ that provides an overview of introducing emerging technologies into our environment. The original Tech Team was comprised of a Team Leader, a Library Systems Analyst, and an Emerging Technologies Librarian. The Team Leader and Library Systems Analyst had been working together, managing the library's website and social media. The addition of the Emerging Technologies Librarian was the catalyst that allowed us to move forward and create new services. In this article, the team expands on 3D printing, data visualization, virtual and augmented reality, who helped us along the way, and some funding resources.

Networking, collaborating, and partnering with colleagues and institutional entities inside and outside the institution and beyond the walls of the library is a sound survival strategy. The authors extend a special thank you to our

colleague **Jennifer Herron** for the innovative and creative contributions that she made as a key member of the Tech Team.

3D Printing, Entering the Fray, Finding Our Niche

Initially we explored 3D printing applications in health science libraries. The **New Media Consortium** Horizon Report 2014 Higher Education Edition, identified 3D printing as an important development in educational technology with a time-to-adoption horizon of 2 to 3 years.² The Tech Team started off with an environmental scan of 3D printing efforts at the **Indiana University School of Medicine** (nine campuses) and on the **Indiana University-Purdue University (IUPUI)** campus. We were able to meet faculty and staff in the radiology department and discuss potential roles for the library. Our scan revealed that our **IUPUI** University Library colleagues had received a **Library Services and Technology Act (LSTA)** grant to start their own 3D print lab. Connecting with colleagues at the University Library 3D print lab revealed that they had requests from the medical side of campus.

They also had many requests from engineering and informatics students, especially at the end of the semester when projects overwhelmed School labs. University Information and Technology Services (UITS) was also in the process of establishing a 3D printing lab. Both the University Library and UITS utilized Makerbot printers. The Herron School of Art was constructing a "Think It Make It Lab" on the Indianapolis campus during this time.³ During the Tech Team visits to the other 3D print labs, we were careful to focus on collaboration and not competition; colleagues agreed and were generous with sharing experiences. The **IU-PUI** School of Informatics was also involved with 3D printing, and the Tech Team met with two faculty members, one of whom was working with a maxillofacial prosthodontics resident from the School of Dentistry on developing a process using digital imaging, design, and 3D printing to make a better-looking and better-fitting facial prosthetic for patients who have had cancer surgery or facial trauma.⁴

From our environmental scan, there was a clear interest and need for 3D printing and a

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