The following report includes contributions from Michelle Durocher, Steven Folsom, Jaime McAllister-Grande, Chew Chiat Naun, Isabel Quintana, Susan Radovsky, Lauren Syer, and Scott Wicks

**Organizational changes:** In September of 2016, the Harvard Library brought Information and Technical Services (ITS), Scholarly Communications, and Harvard College collection development together under the leadership of Elizabeth (Eliz) Kirk, Associate University Librarian for Scholarly Resources. This new role aligns the three component and interdependent functions.

**Staffing changes:** Chew Chiat Naun has joined the Harvard team as Head of Metadata Creation, the group whose main responsibility is to provide intellectual access to the general collections acquired for Harvard libraries in the form of original cataloging and metadata problem solving at the title level. Naun comes to us from Cornell University Library, a close Harvard partner both in terms of collection sharing and metadata standards and tools development.

**Recruitment:** Harvard Library is recruiting for its Head of Electronic Resources position. In addition to leading a seasoned team already managing e-resource operations, this person has a strong focus external to the department. S/he will take a key role engaging with the Library community to formulate and implement policy among the twelve schools that together make up One Harvard Library. S/he will consider how collaborative collection development can enhance the current e-resource offerings (within Harvard, within ReCAP, within the Ivy Plus libraries, or other multi-institutional arrangements such as NERL). S/he also will consider how best to leverage open access opportunities as part of a holistic approach to providing Harvard’s user communities with unimpeded access to content.

**Facilities upgrades:** Harvard Library’s ITS represents an organization that is distributed in a number of locations across Cambridge and Boston. A large part of the department calls 625 Massachusetts Avenue its home. In conjunction with lease renewal, over the past year, upgrades to the physical space allow for ‘huddle rooms’ – small, private, wired collaborative spaces as well as open areas with fun furniture for contemplation or just a chance to break from the workstation. There are also new staff chairs and meeting room furniture, new HVAC equipment to keep us comfortable, and other light refreshes to the physical space.

**Alma:** Harvard Library is preparing for a July 2018 implementation of the Alma library services platform to support its operations from acquisitions to access. A number of staff populate function-based working groups and are busy learning the architecture and logic behind the platform’s workflows-based design. We look forward to the advantages, flexibility, and extensibility the new platform will offer.

**Text mining:** E-Resources staff increased collaboration with researchers, informing vendors about active text mining projects. Staff continue working with vendors to ensure newspaper, literature, and government document data provided for local text mining are accompanied by useful metadata that allow researchers to mine the data effectively.
Staff Development:
As part of the department’s commitment to provide development opportunities to existing staff and to support a gradual shift of staff resources from general collections to support new services, ITS has engaged in a number of pilot projects and offered access to relevant training. Following are a few specific examples of these development opportunities.

**DASH**: (Digital Access to Scholarship at Harvard) is the local repository available to the Harvard scholarly community. Staff participates by enhancing the non-MARC discovery metadata associated with this typically article-based content.

**Dataverse**: The Harvard Library and Harvard University’s Institute for Quantitative Social Science (IQSS) are piloting best practices for support of the data ingest workflows associated with Dataverse. A number of staff at different classification levels will help us understand the right mix of staffing to allow for the variable flow of requests associated with establishing a presence in Dataverse.

**MARS**: Over the past two years, staff has reviewed service offerings from Backstage’s MARS Automated Authority Control product to leverage the power of automated data reconciliation, leaving a small percentage of updates requiring human intervention which also serves as a development opportunity for staff previously unfamiliar with these data.

**Distinct Collections**: Since its formation in 2012, ITS has continued to focus primarily on support for a high volume of general collections acquisitions. A number of opportunities associated with some one-time funding in support of hidden collections (e.g. Julio Mario Santo Domingo Collection, Aerial Photography, Inc.), has created opportunities for staff to expand their skills in support of distinct collections.

**Library Juice Academy**: Harvard Library has been fortunate to fund a significant number of the ITS staff to take advantage of some or all of the components of the linked data training module offered through the Library Juice Academy. The foundational skills set prepares staff to contribute to projects associated with the Linked Data for Libraries/Production activities as well as related local linked data projects.

**Agile**: To help staff manage the outbreak of projects that now form a major part of daily work, Harvard Library piloted an Agile training program. The opportunity to attend a two-day training in Agile practices for libraries was extended to all members of the Harvard Library community with participation by 40 staff from across the organization. Participants formed teams and worked together on an assigned challenge/problem. Following the training, units within ITS are applying Agile practices by utilizing Kanban boards to track workflows and Scrum techniques for project management.
**Metadata Experimentation:**

**LD4L/LD4P Participation:** During the first year of the Andrew Mellon Foundation funded LD4L-Labs and LD4P grants with peers that include Stanford, Princeton, Columbia, Cornell, and the Library of Congress, Harvard contributed considerably to an evaluation of BIBFRAME 2 as a basis for bibliographic description within the projects. This analysis resulted in a subset of the group proposing the bibliotek-o ontology extension, which defines additions and modifications as a supplement to the core BIBFRAME 2 ontology. bibliotek-o is not intended to replace or compete with BIBFRAME. Instead, bibliotek-o expands and provides proofs-of-concept for alternative modeling patterns to be considered for future iterations of BIBFRAME. A mapping specification from MARC to bibliotek-o is being created in support of a converter tool, and an application profile defined to shape the development of a cataloging tool (VitroLib) for the creation of bibliotek-o data.

As part of Harvard’s focus on Moving Image resources in LD4L, an ontology extension to BIBFRAME/bibliotek-o for Harvard Film Archive (HFA) moving image metadata is partially complete, including physical condition modeling and classes specific to Moving Images (Work subclasses, Carrier/Media related subclasses, and Activity subclasses for agent roles). Some tentative mapping documentation from HFA legacy metadata to the desired model has been produced; this includes concordance files mapping existing literal values to canonical URIs. Work is scheduled this summer/early fall for both a converter and cataloging tool.

As part of Harvard’s focus on Geospatial Datasets and Cartographic resources in LD4L/LD4P, Harvard is currently defining a cartographic ontology extension to BIBFRAME/bibliotek-o that is sufficiently rich to encompass a core set of geospatial metadata elements, and creating mappings from FGDC XML to the new RDF ontology. The development of a converter tool is underway to transform FGDC geospatial metadata to RDF linked data. The project also includes tooling to be able to catalog cartographic resources according to the cartographic extension modeling.

**ISNI:** Harvard Library metadata practitioners have been exploring a range of use cases for ISNI and engaging in a number of pilot projects to search for, enrich or create ISNIs as part of Harvard’s ISNI membership. The group is learning about ISNI tools and experimenting with best practice workflows. We undertook a pilot to ensure metadata-rich ISNIs exist for our Graduate School of Design faculty. We will proceed with faculty identifier work later this year for another of Harvard’s schools. We are also creating ISNIs for film directors as part of our LD4L moving image project. As the PCC ISNI pilot gets underway this month, Harvard staff look forward to sharing our experience with other PCC pilot participants to support those new to ISNI to begin learning the tools, database environment and data policies.

**FAST:** Harvard is piloting FAST with a small number of new receipts. Along with several peer institutions, we have articulated a set of use cases to serve as the basis for ongoing discussions with OCLC about future directions for FAST.

**OAQ:** The Metadata Management unit has developed a web-based, metadata collaboration tool called OAQ (Online Author Questionnaire). The application is designed to facilitate data exchange between publishers and libraries to support timely creation of author metadata early in the publication cycle of a new work. After a successful pilot implementation of OAQ with
Harvard University Press this spring, we are embarking on a pilot with the Library of Congress Cataloging in Publication program to expand OAQ adoption to other publishers in their network of CIP participants. OAQ will be a presentation topic at the CIP Advisory Group meeting at ALA on Saturday, June 24th, from 10:30 to 11:30am.

**Korea Foundation sponsorship:** The Korea Foundation was established in 1991 to enhance the image of Korea in the world and also to promote academic and cultural exchange programs. It sponsors a library internship exchange program each year and Harvard Library's ITS has been fortunate to host four interns over the past three years. The interns spend 10 months at Harvard Yenching Library developing metadata skills and familiarity with the relevant tools (RDA, LCSH, LC Classification, and OCLC Connexion) as they help process Harvard collections. These efforts have resulted in increased availability upstream of quality metadata for Korean acquisitions--some past interns have gone on to work for a Korean vendor, providing quality cataloging according to PCC standards for Korean materials.