### Announcements

**Welcome Jolie Graybill and Molly Huber**

*Sara Ring, Minitex/DCME*

We have two new staff who recently joined the DCME unit. I would like to introduce Jolie Graybill, our new Assistant Director, and Molly Huber, our new Minnesota Digital Library Outreach Coordinator. Here’s more about them.

**Jolie Graybill**

Jolie comes to us from the University of Nebraska, where she was a tenured Associate Professor and the Image & Multimedia Collections Coordinator. She created numerous CONTENTdm digital collections for units across the University of Nebraska campuses. Previous to that position, she worked as a Social & Behavioral Sciences team leader at Northern Arizona University and Multicultural Services Librarian at the University of Nebraska, and she was an extension educator for the Ramsey County Minnesota Extension Services program.

Jolie has an extensive publication and presentation vita, and will receive a PhD from Simmons College in ‘Managerial Leadership in the Information Professions’ later this year. Her library degree is from University of Arizona and she has a Master of Education from the University of Minnesota. Jolie has been involved in the ARL Leadership Career Development Program, ALA Emerging Leaders program, and the Minnesota Institute for Early Career Librarians. Jolie joined the Minitex staff on September 15. You can contact her at jog@umn.edu, or 612-624-6787.

**Molly Huber**

Molly comes to Minitex from the Minnesota Historical Society, where she was the editor and project manager for MNopedia, a digital encyclopedia of Minnesota. Before joining MNHS, Molly was the Assistant Curator for African, Oceanic and Native American Art at the Minneapolis Institute of Arts, where she worked for over a decade. She maintains her connection to the subject by editing and designing the Pacific Arts Journal, the biannual publication of the international Pacific Arts Association.

Molly holds a B.A. in History, summa cum laude, from the University of Massachusetts-Amherst, as well as a Master’s Degree in Public History from the University of South Carolina. Molly’s rich understanding of Minnesota history and her ability to connect with her peers throughout the state will be invaluable to the future of the Minnesota Digital Library and Minitex. She joined the Minitex staff on September 4. You can reach her at mollyh@umn.edu, or 612-301-6787.
Changes are afoot in the Digitization, Cataloging & Metadata Education (DCME) Unit. With new personnel and an expanding focus, DCME staff are taking this opportunity to reach out to you to ask for instructional topics you would like us to consider covering in the future in the areas of cataloging, metadata, and digitization. What training would you like to see? And don’t let “training” dissuade you from other suggestions, such as informational webinars, brief video tutorials, printable how-to guides, and so forth.

The link below points to a brief online survey—only 3 questions. In addition to capturing your ideas, we also ask for anonymous demographic information to help us analyze the results: library location (state or province) and library type (public, academic, etc.). The survey should only take a few minutes to complete.

www.surveymonkey.com/s/dcmetraining2014

We look forward to reading your feedback!

Cataloging & Metadata

Cataloger’s Desktop New User Interface
Mark K. Ehlert, Minitex/DCME

In early July, the Cataloging Distribution Services (CDS) office at the Library of Congress issued a brief announcement on upcoming changes to Cataloger’s Desktop. It began: “An all new look and feel is coming to Cataloger’s Desktop in September 2014. LC recently talked to Desktop subscribers and was told that catalogers want a simpler, cleaner user interface that makes it easier to refine searches and navigate. Users also want more robust online help and training.”

Get a taste of the new interface here (PDF, 4 pages):
z.umn.edu/ojl

If you are interested in a video tour, CDS has posted a series of three orientation videos—recordings of late-summer webinars—that walk through the streamlined

Desktop:
www.loc.gov/cds/desktop/training

These videos, in WMV format and suitable for Windows Media Player, are about 30 minutes each and focus on new features with brief Q & A segments. All of the videos are free to download and watch at any time.

Cataloging & Metadata

BIBFRAME Notes
Mark K. Ehlert, Minitex/DCME

ALA BIBFRAME Update Session

The Library of Congress has once again hosted a Bibliographic Framework Initiative (BIBFRAME) Update session, this time at the midsummer American Library Association Annual Conference in Las Vegas. In addition to the “where we’re at and where we’re going” comments by LC’s Sally McCallum, Kevin Ford, also from LC, walked through a preliminary BIBFRAME Editor tool, Stanford University’s Phil Schreur described their testing experience with the developing standard, and Andrea Leigh from the National Audiovisual Conservation Center summarized the BIBFRAME AV Modeling Study that I highlighted in the July Mailing’s “BIBFRAME Notes” article.

A video of the Update is now available on the BIBFRAME website.
www.loc.gov/bibframe/media/updateforum-jun29-2014.html

Frustratingly, the camera operator or video editor did not cut to the presenter’s screen during their talks with the exception of a couple slides. Therefore, we do not see Ford’s demonstration of the Editor nor the components of Schreur’s and Leigh’s respective discussions. The entire video, however, is still informative and worth the 78 minutes.

Those interested in the BIBFRAME Editor can find it here:
bibframe.org/tools/editor

It’s very much a “demo” product and certainly not meant to give the final word on what a BIBFRAME cataloging tool would look like much less how it would function. But it does give us a sample of utilizing linked data in a live context. For instance, click on the New Work link under the “Simple Monograph” section; up comes a blank form. Click on the “Person” button next to the “Author” label and type in a name of a person in the authority
file. It appears the search is live and combing through the authority file at id.loc.gov (a linked data site) for the appropriate name heading. My searches for Albert Einstein and Einstein, Albert—either way worked—pulled up a list of four hits after giving the Editor a few moments to perform its magic. (In a real-world setting, a BIBFRAME Editor should not rely so much on a live internet connection to help us get the job done.)

A better looking Editor is found at the following site and appears to function in a similar manner, though, as of this writing, I had some difficulty getting the heading functionality to work.

ereditor.bibframe.zepheira.com/static

Cataloging & Metadata

OCLC-MARC Update 2014, Phase Two

OCLC, edited

OCLC has now implemented changes related to the OCLC-MARC Update 2014, Phase Two. This includes the remainders of the MARC21 Bibliographic, Authority, and Holdings Updates No. 16, 17, and 18, as well as all MARC codes announced by the Library of Congress (LC) between April and June 2014. Details can be found in OCLC Technical Bulletin (TB) 264:

www.oclc.org/support/services/worldcat/documentation/tb/264.en.html

The OCLC-MARC Update 2014, Phase One was implemented in May 2014, covering selected elements of MARC21 Update No. 16 (dated April 2013) and MARC code list additions announced by the Library of Congress through March 2014. Details of Phase One are available in OCLC TB 263:

www.oclc.org/support/services/worldcat/documentation/tb/263.en.html

Highlights of OCLC-MARC Update 2014, Phase Two include:

• New subfields $q (Qualifying Information) in Bibliographic (and Authority and Holdings, where applicable) fields 015, 020, 024, and 027.
• New subfields defined for Bibliographic and Authority 046 field.
• Subfields $c (Location of Meeting) made repeatable in Bibliographic and Authority X10 and X11 fields.
• New Authority X62 fields for Medium of Performance Terms.
• New Bibliographic and Authority fields 385 (Audience Characteristics) and 386 (Creator/Contributor Characteristics).
• New First Indicators for the Bibliographic 588 field.
• New Authority fields 672 (Title Related to the Entity) and 673 (Title Not Related to the Entity).
• New subfields $7 (Control Subfield) in Bibliographic 8XX fields.

Please note that the implementation of the Authority elements must be coordinated with the Library of Congress and the Program for Cooperative Cataloging (PCC). As noted in TB 264, Name Authority Cooperative (NACO) participants should not use the Authority format changes at this time. LC, PCC, and OCLC will announce the implementation of these elements at a future date.

Digitization & Preservation

Upper Midwest Digital Collections Conference Summary

Sara Ring, Minitex/DCME

On Aug. 18-19, Minitex co-organized (in collaboration with WiLS) and hosted the first-ever Upper Midwest Digital Collections Conference. Library staff in the region were surveyed over a year ago and expressed high interest in a conference for staff involved in digital library/digital collection work. We combined a CONTENTdm User Group Meeting (Day 1) with a broader “all things digital” conference program (Day 2). Our keynote speakers were Matthew Miller from New York Public Library Labs and the Linked Jazz project, and Matthew Butler from University of Iowa and DIY History.

Thank you to the University of St. Thomas Libraries for donating their space and staff time to the conference! OCLC and The MediaPreserve sponsored the conference this year. Visit the conference website to view the archived program descriptions and presenter handouts:

www.wils.org/news-events/wilsevents/umdcc

Image credit: Steve Waage, Cooperating Libraries in Consortium (CLIC)
Here’s a summary by the numbers:

- Day 1 attendees: 116
- Day 2 attendees: 147
- States represented: 17
- Tweets sent with the hashtag #allthingsdigital14: 332
- Informational sessions (including keynotes): 21

Staff interviewed attendees at the conference and asked “what is the coolest thing you have ever digitized” or “what is one thing you would like to digitize from your collections?” Take a look at how they responded:
youtu.be/NfmzANiGu44

Digitization & Preservation

Digital Preservation Solutions for Under-Resourced Institutions

Sara Ring, Minitex/DCME

In August, the Digital POWRR (Preserving Digital Objects With Restricted Resources) project published “From Theory to Action: ‘Good Enough’ Digital Preservation Solutions for Under-Resourced Cultural Heritage Institutions.” Digital POWRR is comprised of staff (librarian, archivists, curators, digital humanists) from small and mid-sized Illinois institutions that are under-resourced due to a decade of state budget cuts. I’ve shared a summary of the paper below, but it’s also a short and very useful read!

If you have digital content, you may already know that managing your digital content so that it is accessible over the long term can be challenging. The *Introduction* section of the white paper lists the following risks:

- The storage media on which materials physically reside can fail or become out-of-date and unusable (e.g. floppy, zip, and Jaz disks)
- The software programs with which they were created become obsolete, making older formats unreadable by newer versions (e.g. WordStar and Lotus 1-2-3)
- The basic bits that comprise digital content can become corrupt over time (e.g. bit rot)
- Mismanagement or loss of materials before being acquired by a repository
- De-contextualization due to lack of descriptive information or metadata

Though the cultural heritage community has developed best practices and standards for helping to mitigate these risks, the tools and services used for digital preservation change rapidly. The white paper states:

> “Practitioners at smaller institutions often do not have time to stay abreast of the frequent developments in the field of digital preservation, may not have the expertise or technical infrastructure necessary to install and maintain complex software solutions, and frequently lack the funds to pay for complete, ready-to-use solutions that may exist.”

Knowing the risks and challenges, the POWRR group sought to investigate pragmatic digital preservation options. They admit that one misconception they had going into the project was that digital preservation is an either/or proposition. “Either an institution has implemented successful digital curation and preservation measures or it has not.” What they found was the exact opposite. Digital preservation is really a set of incremental actions an institution takes throughout
the life cycle of the digital object. They based their approach on the NDSA (National Digital Stewardship Alliance) *Levels of Preservation* guidelines. This set of guidelines uses a rubric to help determine where institutions should start, and to plan their next steps. Check out the ever-evolving NDSA guidelines here:

www.digitalpreservation.gov/ndsa/activities/levels.html

Digital POWRR also realized that most practitioners are capable of taking action with the resources and skills they currently have. Another common misconception is that institutions have to research all the available digital preservation tools and services before taking any of the basic steps to protect digital content. This approach is impractical when you consider that hundreds of tools are available. There are many freely available tools you can use to get started on preserving your digital content. The POWRR team recommends using some of the freely available tools out there to get started now, while simultaneously researching some of the more robust digital preservation solutions that may fit your future needs.

The POWRR team created a rubric of their own, based on the Digital Curation Centre’s digital curation lifecycle (www.dcc.ac.uk/resources/curation-lifecycle-model) and the OAIS Reference Model (public.ccsds.org/publications/archives/650x0m2.pdf). They evaluated nearly 70 tools and services, then mapped them to a grid:

digitalpowrr.niu.edu/tool-grid

<table>
<thead>
<tr>
<th>Ingest</th>
<th>Processing</th>
<th>Access</th>
<th>Storage</th>
<th>Maintenance</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy</td>
<td>Auto Unique ID</td>
<td>Auto SIP Creation</td>
<td>Auto AIP Creation</td>
<td>Internal</td>
<td>Cost</td>
</tr>
<tr>
<td>Fixity Check</td>
<td>Auto Metadata Creation</td>
<td>Rights Management</td>
<td>Redundancy</td>
<td>Migration</td>
<td></td>
</tr>
<tr>
<td>Virus Scan</td>
<td>Auto Harvester</td>
<td>Package Metadata</td>
<td>Exit Strategy</td>
<td>Auto Recovery</td>
<td></td>
</tr>
<tr>
<td>File Defect</td>
<td>Auto Metadatum</td>
<td>Manual Metadata</td>
<td>Storage</td>
<td>Open Source</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clean Documentation</td>
<td></td>
</tr>
</tbody>
</table>

The POWRR Tool evaluation grid shows that different tools perform different functions in the lifecycle of the digital object (ingest, processing, access, storage, maintenance). Some tools only do one or two things, so during the testing process the group also investigated some of the more robust digital preservation solutions:

- Archivematica
- Curator’s Workbench
- DuraCloud
- Internet Archive
- MetaArchive
- Preservica

Each POWRR institution tested at least three of the solutions from the list above. If your institution is interested in learning more about any of these systems, the white paper goes into great detail about the testing process.

In the last section of the white paper, *Moving Towards the Future*, they break their recommendations down into these general areas:

- For small institutions who can not add or redirect financial support in the near future: Data Accessioner and Internet Archive are suggested as possible solutions.
• For institutions with some financial resources, but no support for additional personnel, they recommend Preservica, or possibly participating in MetaArchive, or the combination of Data Accessioner and DuraCloud.

• For institutions that lack financial resources but have the staff to take on additional work, they recommend looking at Archivematica, and DuraCloud or Amazon Glacier as the storage solution piece.

• For institutions that have staffing and financial resources available, Preservica was the best out-of-the-box solution that they tested. They found it to have the lowest learning curve and minimal staff-side intervention.

In the summary, the group reports that they think small and medium sized institutions with limited resources can effectively preserve their digital content in the following ways:

1. Understand that digital preservation is an incremental process.
2. Focus on a set of discrete activities that can immediately yield higher levels of preservation, however modest.
3. Examine your institution’s strengths and potential challenges to committing resources to its digital legacy.
4. When exploring more robust technical solutions, understand that selecting more than one tool or service may be preferable.

Lastly, you may find the case studies written up by each participating POWRR institution useful. They appear at the very end of the white paper (Appendix C). To read the entire publication, visit:

commons.lib.niu.edu/handle/10843/13610

Digitization & Preservation

Introduction to Digital Preservation
Webinar Recording Available
Sara Ring, Minitex/DCME

Minitex hosted a webinar recently that introduced the concept of and the issues associated with digital preservation. Carol Kusmann (Digital Preservation Analyst, University of Minnestoa Libraries) defined the life-cycle of digital objects, the challenges and risks associated with providing access to digital content for the long term, and provided resources for further study, such as the Library of Congress Digital Preservation Outreach and Education Program. You can access the 60 minute recording here:

minitex.adobeconnect.com/p6nbh37qoml

OCLC

OCLC Member Forum Coming to Minnesota

OCLC, edited

OCLC is hosting a number of regional member forums around the country where they will discuss the latest in OCLC Cataloging and Metadata, FirstSearch and Discovery, and Resource Sharing. The Minnesota member forum will take place on Oct. 22 at Macalester College. These sessions bring together member library staff and OCLC staff to share ideas, influence OCLC strategic directions and plans, and discuss best practices for how you can get the most from these services.

Through interactive and robust discussions with colleagues and OCLC experts, you will learn how to:

• Gain greater efficiencies for the services you use
• Maximize these services to best serve your users
• Take advantage of the ways OCLC is working with members to advance their libraries
• Take part in a day of community, conversation and discussion with your colleagues, and utilize the power of your membership in the OCLC cooperative

To view more details and to register, visit:
registration.oclc.org/reg/?pc=MemberForum_StPaul_141022
Welcome Jolie Graybill and Molly Huber

BIBFRAME Notes

OCLC Member Forum Coming to Minnesota
This calendar primarily lists events scheduled by Minitex, although other events are included. This is an informational posting only, registration materials are sent separately. If you would like your event included in the calendar, please call Kay Kirscht at 612-624-3532.

<table>
<thead>
<tr>
<th>OCTOBER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6</strong></td>
</tr>
<tr>
<td>LearningExpress for Public Libraries</td>
</tr>
<tr>
<td>12:30 p.m. - 1:30 p.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=556</td>
</tr>
<tr>
<td><strong>7</strong></td>
</tr>
<tr>
<td>LearningExpress Library</td>
</tr>
<tr>
<td>10:00 a.m. - 11:00 a.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=548</td>
</tr>
<tr>
<td><strong>8-9</strong></td>
</tr>
<tr>
<td>Minnesota Library Association (MLA) Annual Conference: Conference</td>
</tr>
<tr>
<td>Verizon Wireless Center, 1 Civic Center Plaza, Mankato, MN</td>
</tr>
<tr>
<td><a href="http://www.mnlibraryassociation.org/events/event_details.asp?id=423359">www.mnlibraryassociation.org/events/event_details.asp?id=423359</a></td>
</tr>
<tr>
<td><strong>14</strong></td>
</tr>
<tr>
<td>An Electronic Library for Adult Basic Education</td>
</tr>
<tr>
<td>9:00 a.m. - 10:00 a.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=514</td>
</tr>
<tr>
<td><strong>14</strong></td>
</tr>
<tr>
<td>LearningExpress Job &amp; Career Accelerator</td>
</tr>
<tr>
<td>11:00 a.m. - 12:00 p.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=549</td>
</tr>
<tr>
<td><strong>15</strong></td>
</tr>
<tr>
<td>ELM Office Hours</td>
</tr>
<tr>
<td>11:00 a.m. - 12:00 p.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=544</td>
</tr>
<tr>
<td><strong>15</strong></td>
</tr>
<tr>
<td>12:00 p.m. - 1:30 p.m., CST</td>
</tr>
<tr>
<td>University of Minnesota - Twin Cities</td>
</tr>
<tr>
<td><a href="http://www.minitex.umn.edu/Events/Niso/#sharing">www.minitex.umn.edu/Events/Niso/#sharing</a></td>
</tr>
<tr>
<td><strong>20</strong></td>
</tr>
<tr>
<td>CONTENTdm Basic Skills 1: Getting Started with</td>
</tr>
<tr>
<td>1:00 p.m. - 3:00 p.m., CST</td>
</tr>
<tr>
<td>DCME/OCLC online training session</td>
</tr>
<tr>
<td><a href="http://www.minitex.umn.edu/Training/Details.aspx?SessionID=389">www.minitex.umn.edu/Training/Details.aspx?SessionID=389</a></td>
</tr>
<tr>
<td><strong>21</strong></td>
</tr>
<tr>
<td>LearningExpress for Academic Libraries</td>
</tr>
<tr>
<td>1:00 p.m. - 2:00 p.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=552</td>
</tr>
<tr>
<td><strong>22</strong></td>
</tr>
<tr>
<td>ELM Advanced</td>
</tr>
<tr>
<td>9:00 a.m. - 10:00 a.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=557</td>
</tr>
<tr>
<td><strong>22</strong></td>
</tr>
<tr>
<td>ELM Office Hours</td>
</tr>
<tr>
<td>11:00 a.m. - 12:00 p.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=544</td>
</tr>
<tr>
<td><strong>22</strong></td>
</tr>
<tr>
<td>CONTENTdm Basic Skills 2: Working with Text</td>
</tr>
<tr>
<td>1:00 p.m. - 3:00 p.m., CST</td>
</tr>
<tr>
<td>DCME/OCLC online training session</td>
</tr>
<tr>
<td><a href="http://www.minitex.umn.edu/Training/Details.aspx?SessionID=390">www.minitex.umn.edu/Training/Details.aspx?SessionID=390</a></td>
</tr>
<tr>
<td><strong>23</strong></td>
</tr>
<tr>
<td>PALS User Group Meeting Conference</td>
</tr>
<tr>
<td>The Wellstone Center, 179 Robie Street, East St. Paul, MN</td>
</tr>
<tr>
<td><a href="http://www.mnpals.org/content/user-group-meeting-fall-2014">www.mnpals.org/content/user-group-meeting-fall-2014</a></td>
</tr>
<tr>
<td><strong>23</strong></td>
</tr>
<tr>
<td>An Electronic Library for Adult Basic Education</td>
</tr>
<tr>
<td>9:00 a.m. - 10:00 a.m., CST</td>
</tr>
<tr>
<td>Online Reference training session</td>
</tr>
<tr>
<td>minitex.umn.edu/Training/Details.aspx?SessionID=514</td>
</tr>
</tbody>
</table>
AskMN Administrator Refresher
10:30 a.m. - 11:30 a.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=490

Connexion Client Module 04: Save Files, File Management, and Batch Processing
1:00 p.m. - 3:00 p.m., CST
*DCME/OCLC Online training session*
www.minitex.umn.edu/Training/Details.aspx?SessionID=409

LearningExpress Library
9:00 a.m. - 10:00 a.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=548

Hangout On Air - ELM Learning Center: A Brief Overview
12:00 p.m. - 12:20 p.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=546

CONTENTdm Basic Skills 3: Maintaining Collections in
1:00 p.m. - 3:00 p.m., CST
*DCME/OCLC Online training session*

LearningExpress Library K12 Resources
3:00 p.m. - 3:45 p.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=555

History Day Resources in ELM
3:00 p.m. - 4:00 p.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=147

ELM Office Hours
11:00 a.m. - 12:00 p.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=544

NISO Webinar: “Improve Discovery Systems”
12:00 p.m. - 1:30 p.m., CST
*University of Minnesota - Twin Cities*  
Web Link TBD

Google, Library Resources, & Your Students
3:00 p.m. - 4:00 p.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=553

Britannica School Educator Resources
8:00 a.m. - 8:30 a.m., CST
*Online Reference training session*
mintex.umn.edu/Training/Details.aspx?SessionID=554
ELM Advanced  
1:00 p.m. – 2:00 p.m., CST  
*Online Reference training session*  
minitex.umn.edu/Training/Details.aspx?SessionID=557

Hangout On Air - ELM Information & Learning Commons: A Brief Overview  
12:00 p.m. – 12:20 p.m., CST  
*Online Reference training session*  
minitex.umn.edu/Training/Details.aspx?SessionID=547

LearningExpress Library K12 Resources  
8:00 a.m. – 8:45 a.m., CST  
*Online Reference training session*  
minitex.umn.edu/Training/Details.aspx?SessionID=555

NISO Virtual Conference: “Can’t We All Work Together?: Interoperability & Systems Integration”  
10:00 a.m. – 4:00 p.m., CST  
*University of Minnesota - Twin Cities*  
Web Link TBD

ELM Office Hours  
11:00 a.m. – 12:00 Noon, CST  
*Online Reference training session*  
www.minitex.umn.edu/Training/Details.aspx?SessionID=544

LearningExpress Library  
11:30 a.m. – 12:30 p.m., CST  
*Online Reference training session*  
minitex.umn.edu/Training/Details.aspx?SessionID=548

LearningExpress Job & Career Accelerator  
9:30 a.m. – 10:30 a.m., CST  
*Online Reference training session*  
minitex.umn.edu/Training/Details.aspx?SessionID=549

ELM Office Hours  
11:00 a.m. – 12:00 Noon, CST  
*Online Reference training session*  
www.minitex.umn.edu/Training/Details.aspx?SessionID=544

12:00 p.m. – 1:30 p.m., CST  
*University of Minnesota - Twin Cities*  
Web Link TBD

ELM Office Hours  
11:00 a.m. – 12:00 Noon, CST  
*Online Reference training session*  
www.minitex.umn.edu/Training/Details.aspx?SessionID=544

12:00 p.m. – 1:30 p.m., CST  
*University of Minnesota - Twin Cities*  
Web Link TBD

NISO Virtual Conference: “Connecting the Library to the Wider World: Successful Applications of Linked Data”  
10:00 a.m. – 4:00 p.m., CST  
*University of Minnesota - Twin Cities*  
www.minitex.umn.edu/Events/Niso/#connecting