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Library and Information Science for Transportation Committee Meeting (ABG40)

Monday, January 13, 2014, 1:30 – 5:30 PM

Hilton, Columbia Hall

Members present: Matthew Barrett, Sandy Brady, Paul Burley, Bob Cullen, Rita Evans (Secretary), David Jared, Kendra Levine, Arlene Mathison, Mary Moulton, Chris Pringle, Birgitta Sandstedt, Roberto Sarmiento (Chair), Sue Sillick, Bob Sweet, Sandy Tucker, Ken Winter, Daniel Yeh

TRB Staff Representative: James W. Bryant

Guests: Joseph Busch, Leighton Christiansen, Kathleen Crabb, Janet Daly, Andy Everett, Kenita Honesly, Mitch Ison, Anita Kinney, Dave Martin, Laurie McGinis, Bill McLeod, Samantha Smith, Gwen Wang, Laura Whyne, Amanda Wilson, Lisa Zilniski

1. Welcome and member introductions (R. Sarmiento, All)

2. Announcements (ALL)

- Dennis van den Braak (SWOV): Knowledge Management portal introduced.
- Sheila Hatchell (MnDOT): MnDOT Library conducted a valuation/return on investment study in 2013. <http://www.dot.state.mn.us/library/Library-ROI-Study.html>.

3. Approval of October 2013 Minutes. See minutes [here](#) (R. Sarmiento)

Minutes approved.

4. Chair's update and future plans (R. Sarmiento)

- LIST held four productive meetings remotely in 2013 and four are planned for 2014.
- While LIST did not produce as much robust programming as in previous years, the committee sponsored *e-Books and Transportation: Familiar Technology in a New Setting* and co-sponsored *What CEOs Need to Know About Transportation Data for Better Decisions*, and *Managing Information and Knowledge: Tools of the Trade*. See <http://trblist.org/node/86> for details. Program planning for the next AM will begin much earlier than last year. See item 12 for program ideas.
- TRT Subcommittee Chair Sandy Tucker initiated a request to transfer the subcommittee to B0002 since its work is so closely aligned with TRIS. The transfer was approved.
- Three small working groups were formed to produce a guidance document on where and how to search for transportation information. Work is proceeding and drafts of two documents are anticipated by March. The final product may result in an eCircular. See item 6 for details.
- Access to US state DOT information from outside US: Roberto, Andrew Meier and Leighton Christiansen coordinated a review of access to state DOT and DOT library websites from outside the U.S. See item 16 for details.

DRAFT

- The LIST website, <http://trblist.org/>, could use more activity and everyone is encouraged to post more information. Roberto thanked Kendra Levine for maintaining site in good order.
- TRB contacted members to gauge their interest in continuing to serve on LIST. One-third of the membership must turn over; see item 5. Roberto will contact some members individually.
- Roberto will step down as LIST Chair when his current three-year term ends in April 2015. He encouraged members to consider whether they are interested in chairing the committee.

5. LIST Membership Drive (R. Sarmiento)

The maximum number of committee members is 25 but LIST can have an additional five international members and an additional four Young Members; slots are available for both categories. TRB encourages minority, female, young (under 35), and international members. Roberto would like to recruit more non-librarian members. If any committee Friends wish to become members, contact Roberto by January 31. Approval/vetting is handled by TRB. Active participation is expected.

Action: Contact Roberto if you are interested in joining the committee or have someone to recommend.

6. Literature Review Project Update (R. Sarmiento +)

Roberto and Sue Sillick are coordinators for this LIST project. Other partners include the Conduct of Research Committee, MnDOT, members of B0002, etc. The project grew out of a question posed at TRB 2013, "What constitutes a good literature review?" A group worked on definitions (literature search, literature review, etc.). The continuation of the project has a target audience of research engineers.

The project aims to produce a document which will provide guidelines on: How to build a search strategy (methodology); Where to search (sources); and How to synthesize and present literature search results. LIST is working on the first two points, drawing on the extensive expertise within committee members; the third has been contracted out via MnDOT. The LIST task groups:

- How to build a search strategy – Janet Daly, Andrew Meier, Ken Winter, Hong Yu
- Where to search – Bob Sweet, Rita Evans, Jane Minotti, Barbara Post
- Review team to vet draft – Andrea Avni, Paul Burley, David Jared, Birgitta Sandstedt

Matt Barrett suggested that consultants who produce EISs could really benefit from tool since many do poor literature searches. Kendra noted that MnDOT's original motivation was in wanting compliance with requirements to produce literature review/search and the agency is not necessarily getting what they want/need from the consultant/researcher.

Ken asked if it would be possible to define "tiers" of literature searches/reviews and what someone requesting a search should expect in terms of outcomes. This could be a follow-up to the existing project. David Jared seconded pursuing the tier approach, noting that it could deliver considerable value to agencies, particularly when faced with time constraints. It could be a tool for managers to help determine whether "paying" more is worth it given the information need. Some parameters might include time, whether both free and fee-based resources would be searched, and the "review" vs. "search" component.

7. NTL updates (A. Wilson)

- David Martin is new NTL Reference Librarian
- NTL expects budget stability for FY14, but that amount is a 50% cut from FY12
- NTL can propose new, one-time investments and is working on BTS projects
- NTL has implemented minimal cataloging and is looking at machine indexing

DRAFT

- NTL working with Library of Congress to assess holdings of all federal libraries for comparison and alignment

USDOT has responded to the Office of Technology and Science Policy's (OSTP) memorandum *Increasing Access to the Results of Federally Funded Scientific Research*,

http://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf.

NTL has been identified under the MAP-21 mandate as a repository for USDOT research and will be working with TRB. The target date from OMB is likely to be mid-2015 or later. While the memo applies to all DOT administrations, FAA, FHWA and RITA will be particularly affected. Amanda noted that there may be opportunities to partner with FAA which has a number of repositories.

8. TRB Announcements (J. Bryant)

LIST's TRB Staff Liaison James Bryant provided statistics on meeting activities and papers submitted.

- 2015 AM theme is *Corridors for the Future, Transportation and Technology*
- 2015 AM will be held in the Washington Convention Center; wifi access in public areas
- No conference call access to committee meetings in 2015

9. Gray Literature: Focusing Discussion (Bob Sweet, All)

Bob: *Ole Grey Mare – What Grey Literature Is and Isn't*,

<http://trblist.org/sites/default/files/Ole%20Gray%20Mare.pdf>. Terminology matters, and while there is not an officially accepted definition, the Prague definition is commonly used. Bob presented a long list of formats which can be considered gray literature. Rita and Kendra described their handout, where the focus is on narrower list of document types. Kendra referred back to safety meeting where the example of an email containing important information was brought up. How is can that information be captured and brought to the attention of the agency as a whole so it is considered when formulating policy or making decision?

Not all grey literature is created equal. With limited time and resources, what are the most important and most elusive types we should consider addressing? Kendra identified technology transfer. Leighton said this is a distribution issue; most of us do not want to see individual emails from each state DOT alerting us to new technical reports, but what is a more effective way? Should TKNs be involved in addressing these issues?

Sandy Tucker said she became aware of a collection of pavement reports that embodied a great deal of research and were sitting unused in a filing cabinet. How can this material be made findable and accessible and be preserved? Roberto suggested developing guidelines for how to manage grey literature that could be adopted by our community. Education could be handled through the TKNs.

Daniel Yeh, who manages library, records management, and research asked about the distinction between a project record and what we're describing as grey literature. He described a project diary for a bridge construction project which John Cherney saw as belonging in library while Daniel sees project record as being part of project archives. Matt concurred with Daniel. While the agency would make such a document available if it is requested, it may not be necessarily interested in publicizing or making it readily available. There are many legal considerations.

Ken suggested developing Recommended Best Practices for handling different types. A best practice might be to make a document available on a limited basis. For example, for consultant reports, a best practice could be that copy of each report must be provided to the agency library.

DRAFT

[Action items for grey literature will be discussed at the next LIST meeting.]

10. Paper Presentation: Evolution of Data Creation, Management, Publication, and Curation in the Research Process by Lisa D. Zilinski, David Alan Scherer, Jr, Darcy M. Bullock, Deborah Horton, and Courtney Earl Matthews, Purdue University. TRB 14-0664.

http://trblist.org/sites/default/files/14_0664_Library_Data_Paper_revised_submission.pdf

Lisa Zilinski, Assistant Professor at Purdue, described how the Purdue University Libraries and the Joint Transportation Research Program (JTRP) collaborated to develop a comprehensive work flow that links technical report production with the management and publication of associated data. This effort is in line with recent federal policy changes affecting access to data from publicly funded research. The changes include the 2011 NSF requirement for data management plans to be submitted with grant proposals and the 2013 OSTP memo extending a similar requirement to all federal agencies with research budgets exceeding \$100,000,000.

JTRP fosters collaboration between the Indiana DOT and higher education institutions. Purdue Libraries Publishing comprises Purdue University Press and Purdue e-Pubs/Scholarly Publishing Services. The Purdue Libraries/JTRP team pursued several actions to prototype workflow, expose data, improve efficiency and avoid duplication, and integrate data and the scholarly publishing workflow, linking technical reports and data:

- Identify a use case
- Stage datasets in PURR (Purdue University Research Repository)
- Format and stage technical reports
- Link the data

On the technical reports side, Purdue Libraries historically saw growth in downloads after reports began to be born digital and the backfile was digitized. They are archiving technical reports, data papers, and other publications. Archiving of conference proceedings is viewed as an emerging opportunity. With the digital repository, the technical reports moved from limited visibility to worldwide exposure and access.

The next step was to add access to data. The service model of collaboration was Purdue e-Pubs for publications and PURR for data. PURR includes metadata and can assign a DOI to a dataset. It is not necessary to have a paper associated with dataset.

Purdue e-Pubs and PURR provide statistics and measurement capabilities to gauge quantitative and qualitative measurements of impact:

- Authors receive automatic email from repository reporting download statistics on their items
- Administrators receive an email reporting downloads for the series and collections under their purview
- Administrators can receive access statistics via Google Analytics monitoring
- Altmetric (in use) and ImpactStory (forthcoming) plug-in tools provide altmetrics, statistics, and social web metrics
- PURR tracks and provides public listing of total data sets downloads

Citations, downloads, and access (how many times viewed) are measured. The ability to manipulate data on the website without downloading will be implemented soon.

DRAFT

Lisa then described the PURR workflow: data management planning, collaboration, publishing, and preservation. A cohesive publication workflow has been developed to link technical reports to data. A digital management plan (DMP) is created immediately after a principle investigator (PI) drafts a proposal. Digital object identifiers (DOI) are minted in PURR and submitted to e-Pubs and metadata is generated. "Data" are defined broadly and range from traditional numerical data and accompanying metadata, to more sophisticated data sets such as audio and video. The PURR webpage (<https://purr.purdue.edu/>) tightly links the datasets with their own DOIs to their respective publications.

Best practices identified:

- Linked workflows to coordinate resources and anticipate needs
- Early interaction with data repository to employ good data management principles and practices, ease citation management, and increase impact
- Traditional publication attributes: increase visibility and discoverability, meet funder requirements, measure and assess impact
- Usage and access metrics
- Motivate researchers to deposit data: they want citations; requirements from funders; need to quit replicating effort to generate data; greater exposure
- Note that with private entities, motivation and incentive can be much different, but may have to comply depending on funding requirements

Q&A

- What platform does PURR use? Purdue's open-source HubZero.
- Who holds copyright for items in ePubs repository? Purdue. Work done in past three years to clean up copyright ownership issues for items in repository.
- Who covers cost of DOIs? Purdue Libraries.
- Have researchers found value in obtaining DOIs? Yes; has greatly simplified citation management.

11. Committee Research Coordinator Update (CRC) (S. Sillick & D. Jared)

Sue reported that LIST has one Research Needs Statement (RNS) in the RNS Database. Developed by Arlene Mathison, it addresses data management competencies and may be appropriate for a Synthesis (literature review and state of the practice) publication. The Statewide Transportation Data and Information Systems Committee has expressed interest in this topic.

Roberto encouraged members to work on pithy RNSs. Sue noted that quality is much more important than quantity. LIST had considered cosponsoring an RNS on the Literature Review process but based on the scope and expertise needed for the project, it was decided that it would be better and faster if LIST members performed the work. Contact Sue if you are interested in developing an RNS. Other topics in the LIST RNS parking lot: Grey literature; Data access and preservation; Data citation research; "No results" research projects.

David Jared said that as a member of AASHTO SCOR, which approves NCHRP projects, he will represent the interests of LIST. He noted the success Leni Oman of WSDOT has had with securing funding from SCOR for NCHRP projects involving information. A separate group reviews and approves Synthesis projects. Where/how to search could be a good topic for a webinar.

DRAFT

12. Program Ideas and Brainstorming Session for TRB Annual 2015 (All)

Committee discussed a number of program ideas:

- Grey literature (see item 9)
- Where and How to Search. Hands-on Workshop on Intelligent Searching which would allow live searching and coaching
- Open data, open access as it applies specifically to transportation
 - Kendra volunteered to organize session and seek co-sponsorship from Statewide Transportation Data, Urban Data, and Data Visualization Committees. Andy Everett volunteered to assist
- International information – Tap into 2012 International Conference, perspective from outside US such as libraries closing in Australia and Denmark, international users not being able to access US state DOT sites
- Public-private partnerships – what US can learn from rest of world on successful PPPs
- Intellectual property including copyright, Creative Commons, providing agencies' information to NTL or other repositories; Kendra noted tie to Open Access and this may be better way to address OA than with Open Data
- Webinar – why we should be assigning Creative Commons licenses to all tech reports
 - Mary Moulton tentatively volunteered to organize

Call for Papers – Roberto thanked Kendra for handling the 2014 AM call and is looking for someone to manage the 2015 call. The call should go out in mid- March, deadline is August 1.

Poster Session ideas – demonstrating value, including MnDOT publication and Pooled Fund resource

- Possibly Leighton, Sheila, Maggie (engage Pooled Fund)
- Sandy Tucker: broaden topic to include demonstrating value of agencies and other transportation entities

13. Public access plans for research reports and open data (M. Moulton)

Amanda, Leighton, Kendra, and Mary will present a poster, “Opening Transportation Research Data & Publications: Rewards & Roadblocks” at the International Data Curation Conference in San Francisco in February. The conference is interdisciplinary and this is great opportunity to work with data curation experts, drawing on their skills and expanding our own.

BTS is sponsoring a half-day workshop at the conference, “Trans/Hack: Opening and Preserving Transportation Data Hackathon”. Leighton and Kendra are organizing the workshop and have developed a wiki. The hackathon/workshop will introduce participants to problems posed by transportation data sets, from spreadsheets to naturalistic driving videos. Participants will then help come up with solutions. <http://www.dcc.ac.uk/events/idcc14/workshops#sthash.1a08fn1u.dpuf>

Leighton is writing a press release on the presentations for the Iowa I-School that will be adaptable for other audiences.

14. TRB Information Services Activities Update (L. Loy)

- Janet Daley now Senior Abstractor at TRB
- Records in TRID for TRB archive materials being edited to include terms from TRT and to be more consistent with current TRIS (not TRID) indexing standards
- Three NCHRP projects, 20-96, 20-97, 20-98, are underway, with RFPs issued

DRAFT

- TRID – more than 5,000,000 searches since launch
- As outcome of International Conference in September 2012, TRID to receive Japanese and Malaysian content; content from South Korea in the very preliminary discussion phase
- William McLeod and Ken Winter presented webinar on using citation management software

15. International Information Update (B. Sandstedt)

- Andrew Meier and Birgitta working on collection management policy for ITRD
- SWOV debuted new library portal
- Danish Road Directorate closed its library in January
- Swedish Transport Research Portal re-launched and links to websites of 12 largest transportation funders in Sweden
- K2 (research center for public transport) launched initiative to double use of public transport, VTI setting up portal.
- VTI integrating maritime information into TransGuide
- Swedish Transport Administration awarded VTI contract for big, challenging project to follow transportation research throughout the world

16. International Access of US Resources Project Update (R. Sarmiento)

Access to some state DOT sites can be difficult. Roberto, Ken Winter and Andrew Meier enlisted international users to test access to every US state DOT website, its library, and full-text publications; even if the DOT site is accessible, the library or publications may not be. Matt suggested that agencies using Blue Coat Web Filter may be applying settings incorrectly and blocking access. The working group will do an in-depth analysis of the data and will disseminate the results later this year.

International Access Project working group:

<http://trblist.org/sites/default/files/Int%27I%20Web%20Access%20Project%20Members.pdf>

17. TRB - Access to International Transportation Research Information Conference Update

(R. Sarmiento)

Still waiting for TRB to publish.

18. Other Business

Roberto would like to schedule the next LIST meeting before mid-March.

19. Meeting Adjourns