



Workshop Proposal

Workshop details

Title	Enabling Archival Functions with BitCurator and BitCurator Access
Description	Digital forensics tools and methods can support a variety of important archival tasks. There are two needs that are not addressed by software designed for the digital forensics industry: incorporation into the workflow of archives/library ingest and collection management environments, and provision of public access to the data. The BitCurator and BitCurator Access projects have developed software specifically for collecting professionals that incorporates the functionality of many open source digital forensics tools. The software is open source, freely available and can be run directly in Linux or within a virtual machine on other platforms (Windows and Mac). This workshop – a combination of lecture, discussion and hands-on activities -- will cover the basic functionality of the BitCurator environment and BitCurator Access tools and several features that are currently under development. It will also address the motivation for using such tools, connections to archival workflows and implications for participants' own institutions.
Planned outcomes	<ul style="list-style-type: none">• Learn how to run the BitCurator environment in a virtual machine (using Virtual Box)• Export filesystem metadata from a disk image (using fiwalk)• Locate and identify personally identifying information within digital materials (using Bulk Extractor)• Automate repetitive tasks (using Nautilus scripts)• Recognize and understand the main data elements that are generated by many open source forensics tools (using DFXML)• Generate summary reports of DFXML metadata that can be used to characterize the contents of disks (using BitCurator reporting tools)• Enable access to data from disk images using several different access platforms
Intended audience	This workshop is intended for archivists who are either (1) responsible for acquiring or transferring collections of digital materials, particularly those that are received on removable media, or (2) have management and decision making duties related to



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	the above duties and would like to learn about the practical opportunities and implications of the work.
Presentation Language	English
Ideal number of participants	Up to 30
Technical requirements	The instructor will need a projector, screen and reliable internet access. Each participant should come to the workshop with a laptop that has the BitCurator environment pre-installed. The instructor can share details instructions to participants in advance.
Time required	8 hours
Workshop connection to PCOM programmes or projects	This workshop has strong connections to the priorities and objectives of the ICA Digital Recordkeeping Programme. The free and open-source (FOSS) BitCurator and BitCurator Access tools and methods are a powerful complement to other FOSS systems such as ICA-AtoM, Archivematica and ArchivesSpace. Archival institutions in many countries are increasingly using forensics methods to process data from digital media, and then feeding the output into other systems for archival description and long-term preservation.

Presenter

First name:	Christopher	Surname:	Lee
Organisation:	University of North Carolina	Email:	callee@ils.unc.edu
ICA membership and affiliations	Participated in the ICA Congress in Brisbane and will be assisting with the forthcoming ICA SUV meeting in Chapel Hill. Not currently a member of ICA		
Biography: (150 words)	<p>Christopher (Cal) Lee is Associate Professor at the School of Information and Library Science at the University of North Carolina, Chapel Hill. He teaches archival administration; records management; digital curation; understanding information technology for managing digital collections; and digital forensics. He is a lead organizer and instructor for the DigCCurr Professional Institute, and he teaches professional workshops on the application of digital forensics methods and principles.</p> <p>Cal's primary area of research is digital curation. Cal developed "A Framework for Contextual Information in Digital Collections," and edited and provided several chapters to <i>I, Digital: Personal Collections in the Digital Era</i>.</p>		



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	<p>Cal is Principal Investigator of BitCurator Access and was Principal Investigator of BitCurator. He was also Principal Investigator of the Digital Acquisition Learning Laboratory (DALL) project, is Senior Personnel on the DataNet Federation Consortium, and has served as Co-PI on several projects focused on digital curation education.</p>
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