BitCurator Access

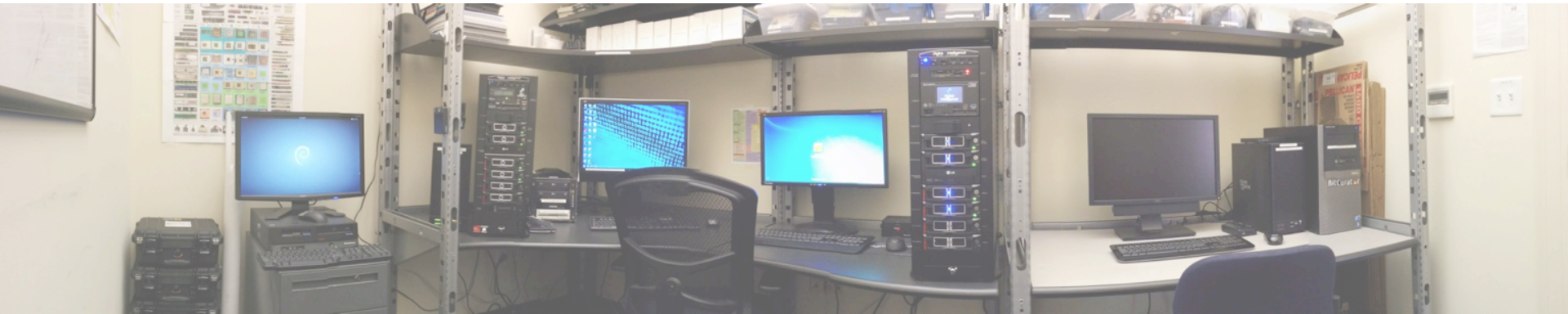
Simplifying and improving access to the contents of disk images in born-digital collections

Kam Woods
Research Scientist
UNC School of Information and Library Science

UNC SCHOOL OF INFORMATION AND LIBRARY SCIENCE

CurateGear
January 7, 2015

The Andrew W. Mellon Foundation



BitCurator Access is a two-year Andrew W. Mellon Foundation funded project (October 1, 2014 – September 30, 2016) housed in the School of Information and Library Science at the University of North Carolina at Chapel Hill.

We're developing open-source software to support access to disk images. Three core approaches:

(1) Tools and reusable libraries to support web access services for disk images

(2) Analyzing contents of file systems and associated metadata (and developing software to support redaction)

(3) Simplifying access to emulated environments

BitCurator Access Core Team

- Cal Lee, PI
- Kam Woods, Technical Lead and Co-PI
- Alex Chassanoff, Project Manager
- Sunitha Misra, Software Developer

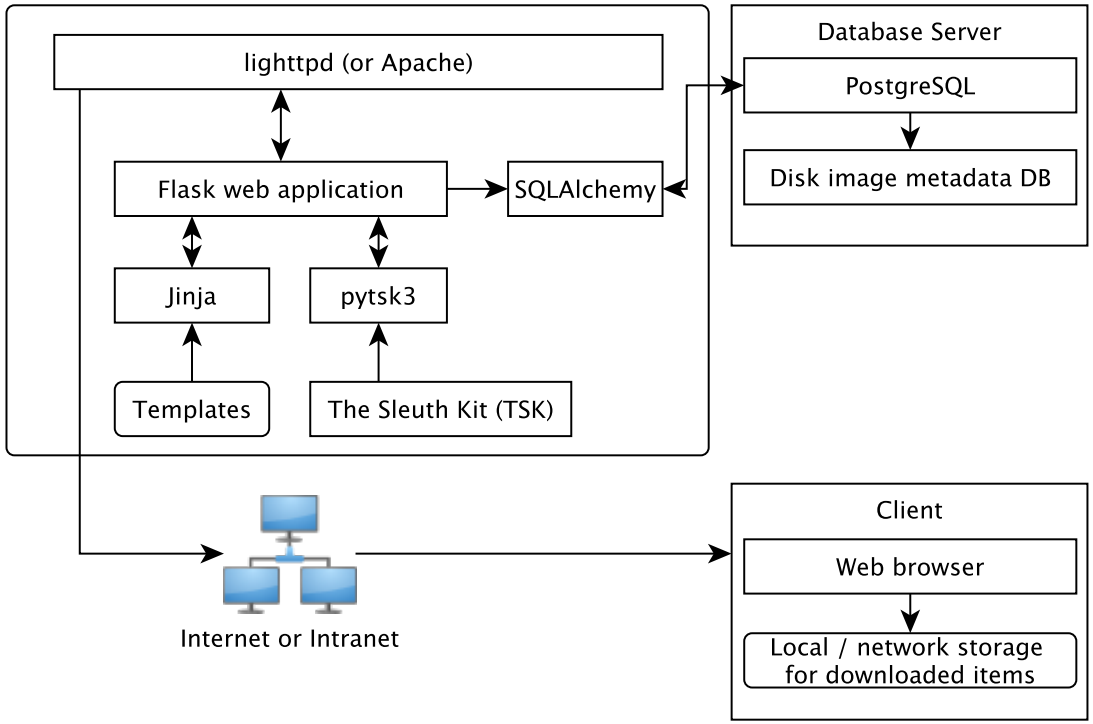
BitCurator Access Advisory Board

- Geoffrey Brown, Indiana University
- Mark Evans, History Associates
- Erika Farr, Emory University
- Matthew Farrell, Duke University
- Brad Glisson, University of South Alabama
- Matthew Kirschenbaum, Maryland Institute for Technology in the Humanities
- Susan Malsbury, New York Public Library
- Don Mennerich, New York University
- Alex Nelson, Prometheus Computing
- Michael Olson, Stanford University
- Klaus Rechert, University of Freiburg
- Kari Smith, Massachusetts Institute of Technology
- Bradley Westbrook, ArchivesSpace
- Doug White, National Institute of Standards and Technology
- Carl Wilson, Open Planets Foundation

Today's Demo:

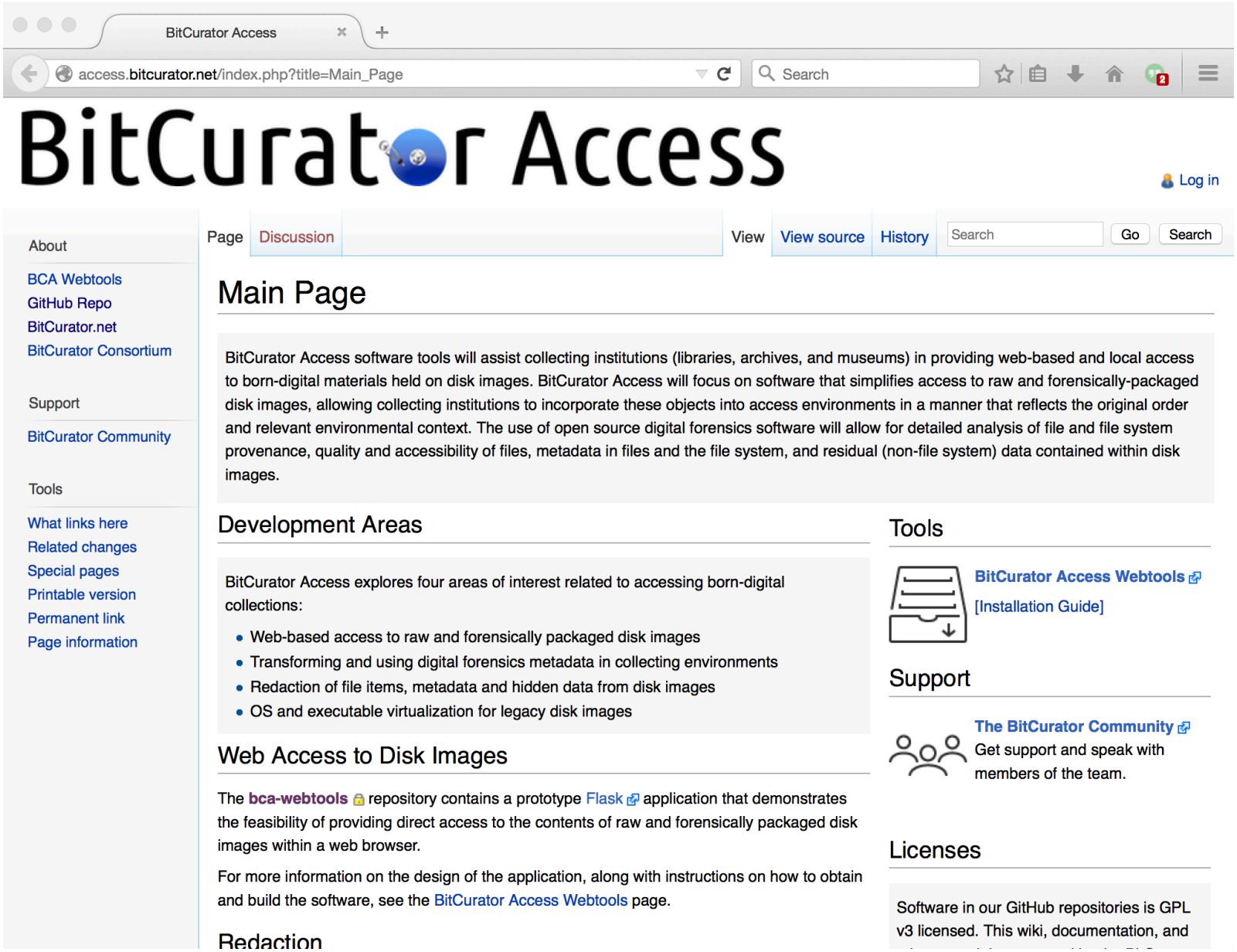
We've developed a prototype to demonstrate integrating digital forensics forensics software libraries and lightweight webservices tools. Drop your disk images in a local or network-accessible location, start up the service, and start browsing a wide range of disk images.

- Most analysis runs server-side (via Sleuthkit and DFXML Python bindings, among others)
- Service is database-agnostic (we use postgres)
- Automatic metadata production (DFXML, PREMIS, others)
- Coming: user authentication, annotations, selectable services



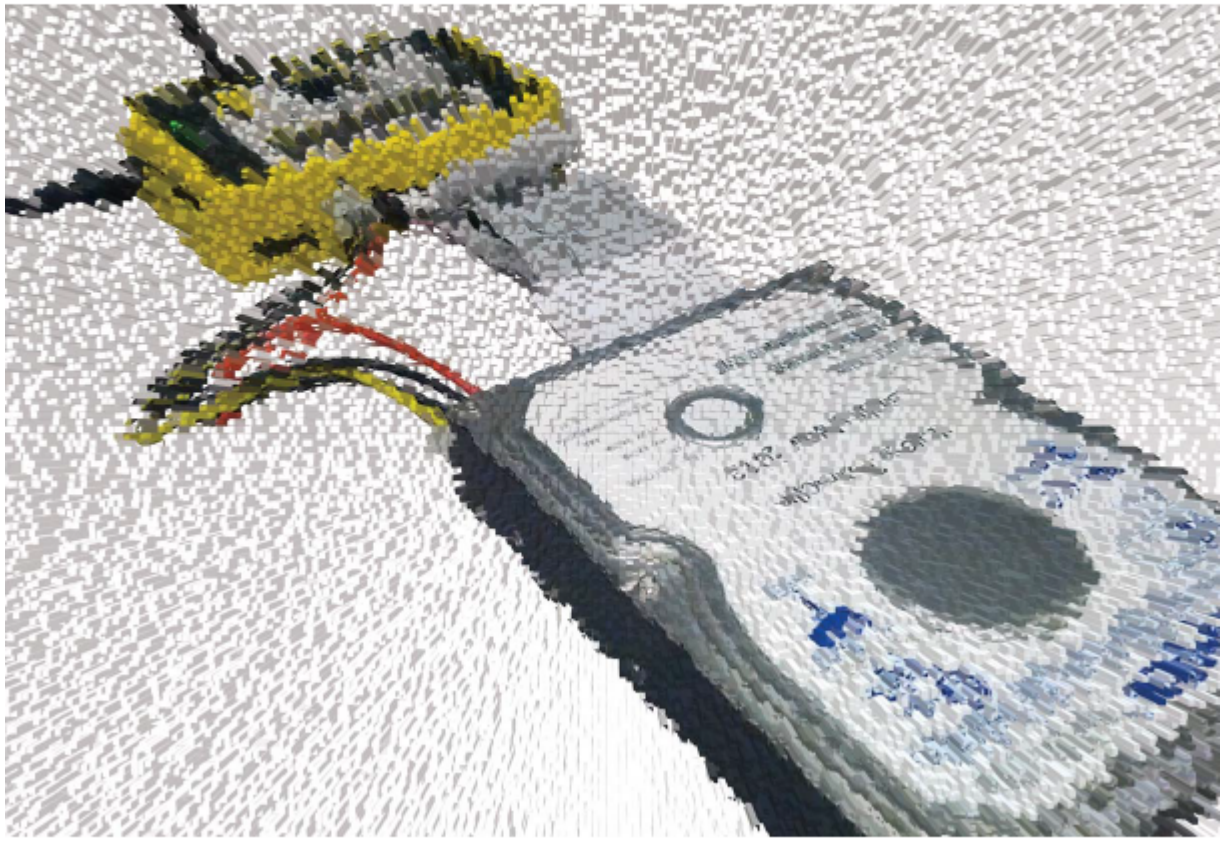
https://github.com/kamwoods/bca-webtools

http://access.bitcurator.net/



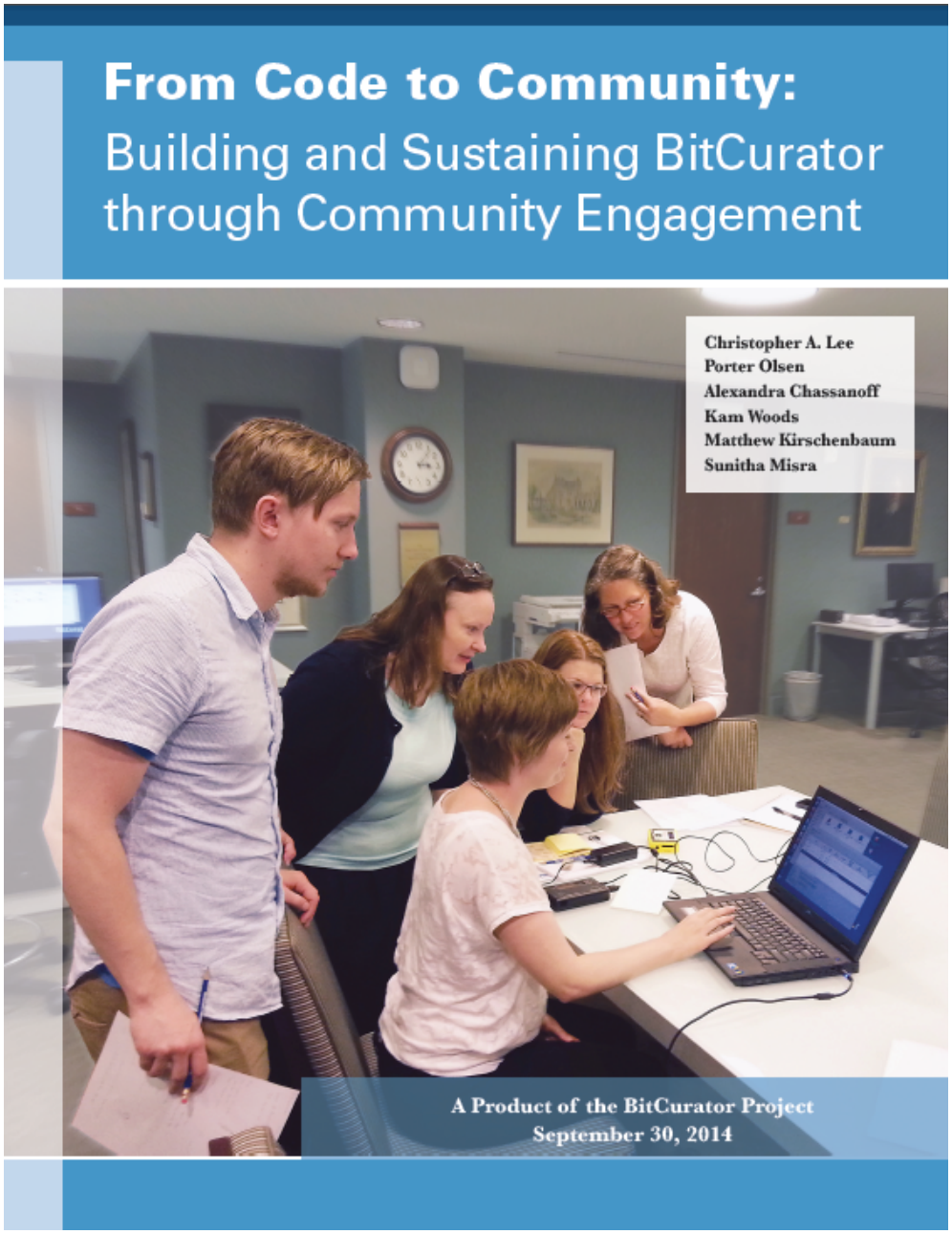
From Bitstreams to Heritage:

Putting Digital Forensics into Practice in Collecting Institutions



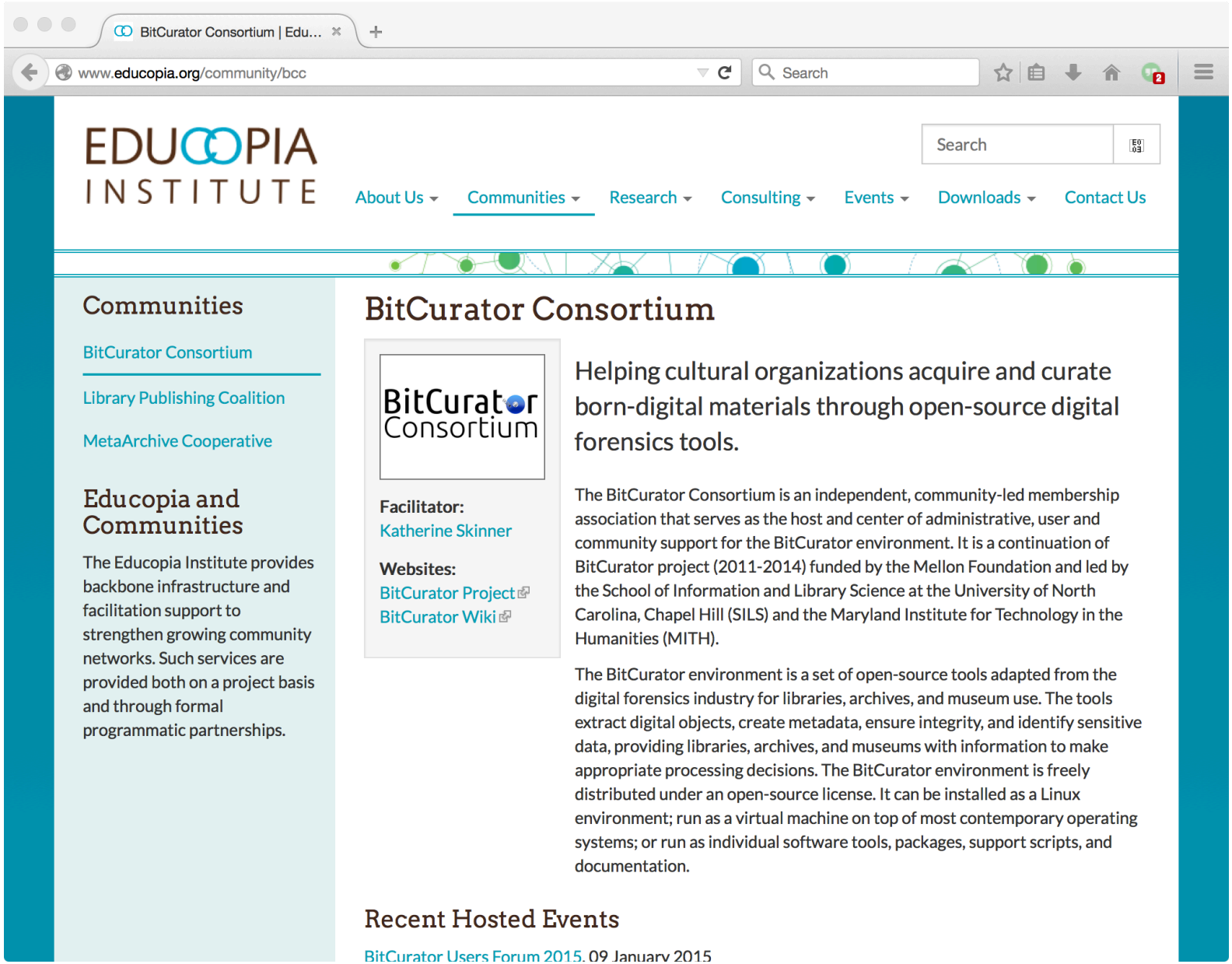
Christopher A. Lee, Kam Woods, Matthew Kirschenbaum, and Alexandra Chassanoff

http://www.bitcurator.net/docs/bitstreams-to-heritage.pdf

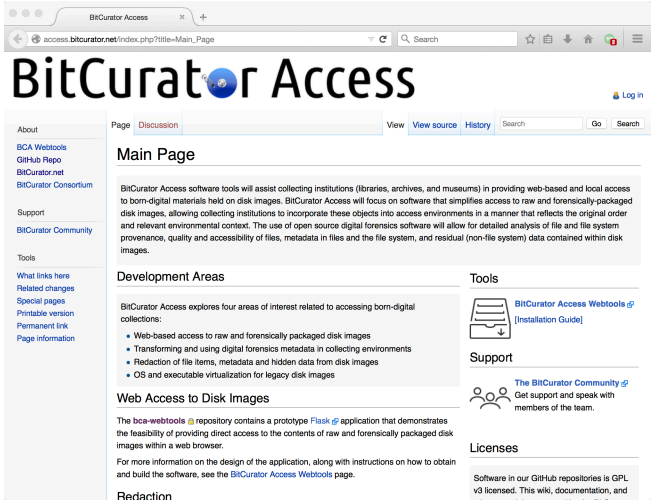


http://www.bitcurator.net/wp-content/uploads/2014/11/code-to-community.pdf

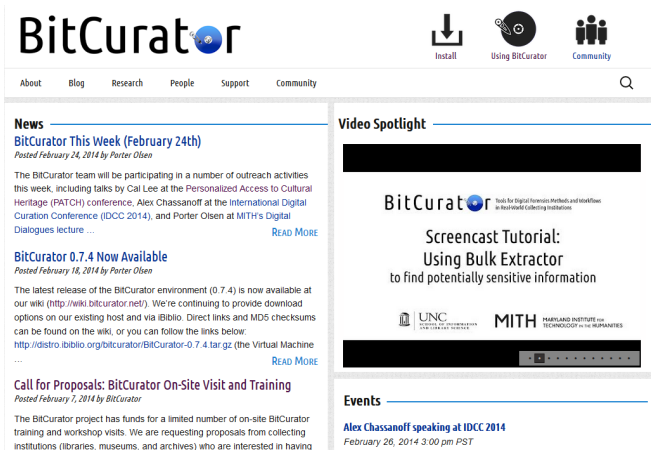
http://www.educopia.org/community/bcc/



BitCurator, BitCurator Access and BC Consortium Resources



Get the software
Documentation and technical specifications
Google Group
http://access.bitcurator.net/



People
Project overview
Publications
News
Consortium Membership
http://www.bitcurator.net/

...and on Twitter: @bitcurator