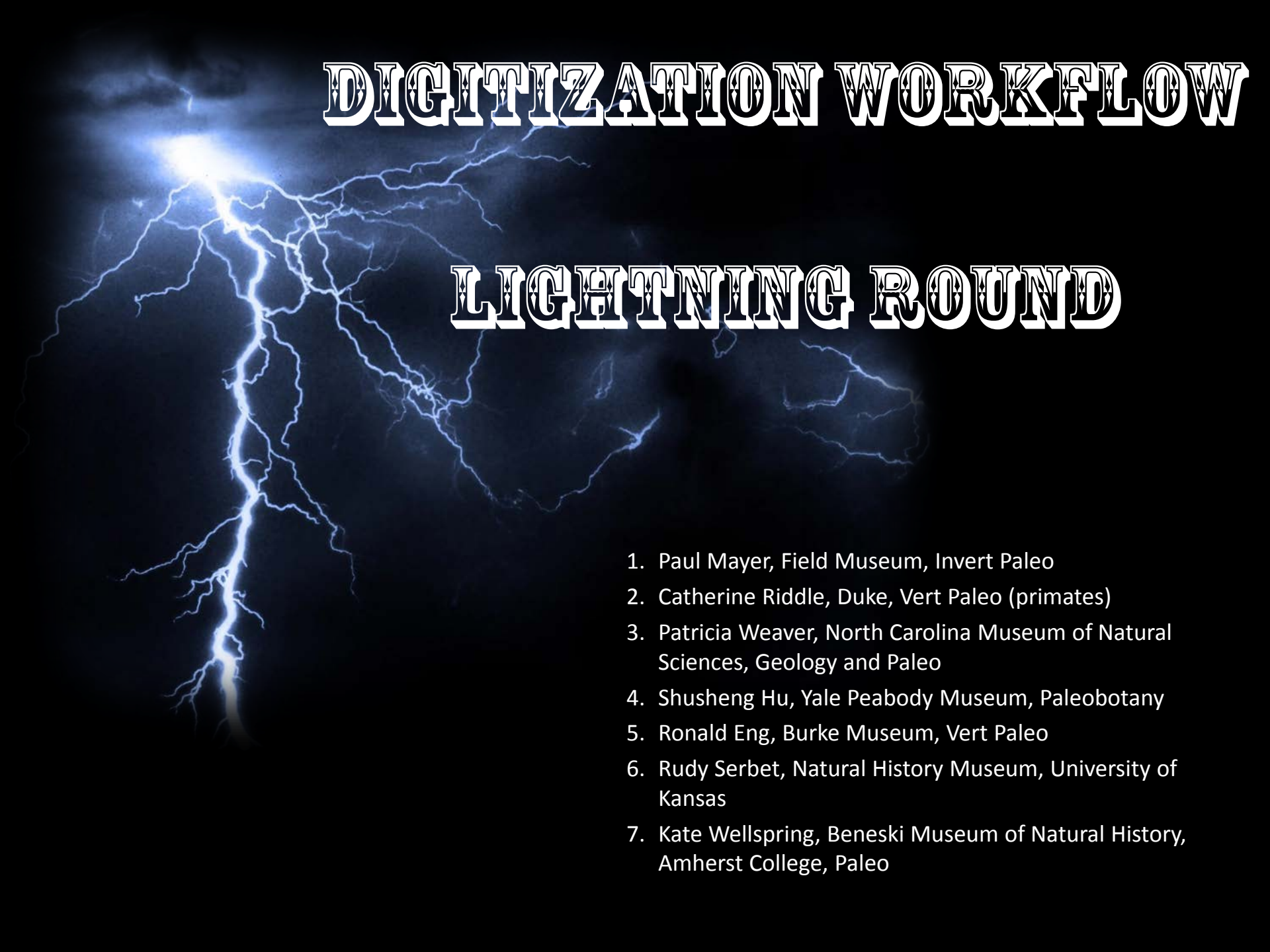


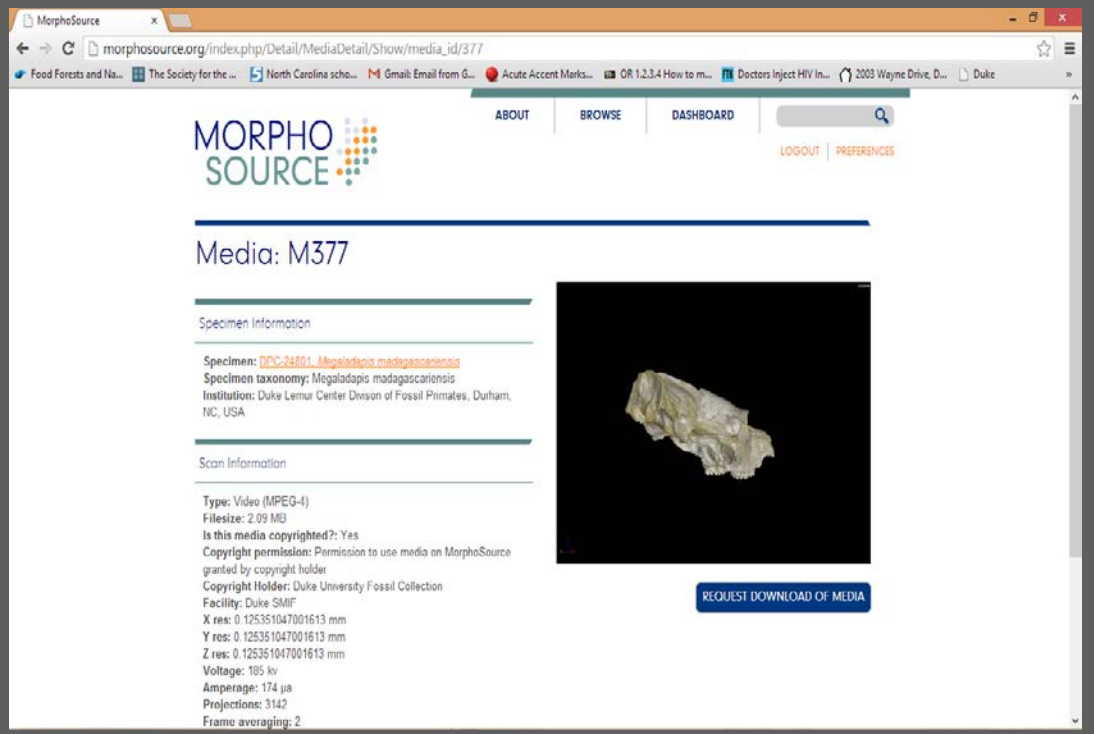
DIGITIZATION WORKFLOW

LIGHTNING ROUND

1. Paul Mayer, Field Museum, Invert Paleo
2. Catherine Riddle, Duke, Vert Paleo (primates)
3. Patricia Weaver, North Carolina Museum of Natural Sciences, Geology and Paleo
4. Shusheng Hu, Yale Peabody Museum, Paleobotany
5. Ronald Eng, Burke Museum, Vert Paleo
6. Rudy Serbet, Natural History Museum, University of Kansas
7. Kate Wellspring, Beneski Museum of Natural History, Amherst College, Paleo

IMLS Silurian Reef Digitization Project

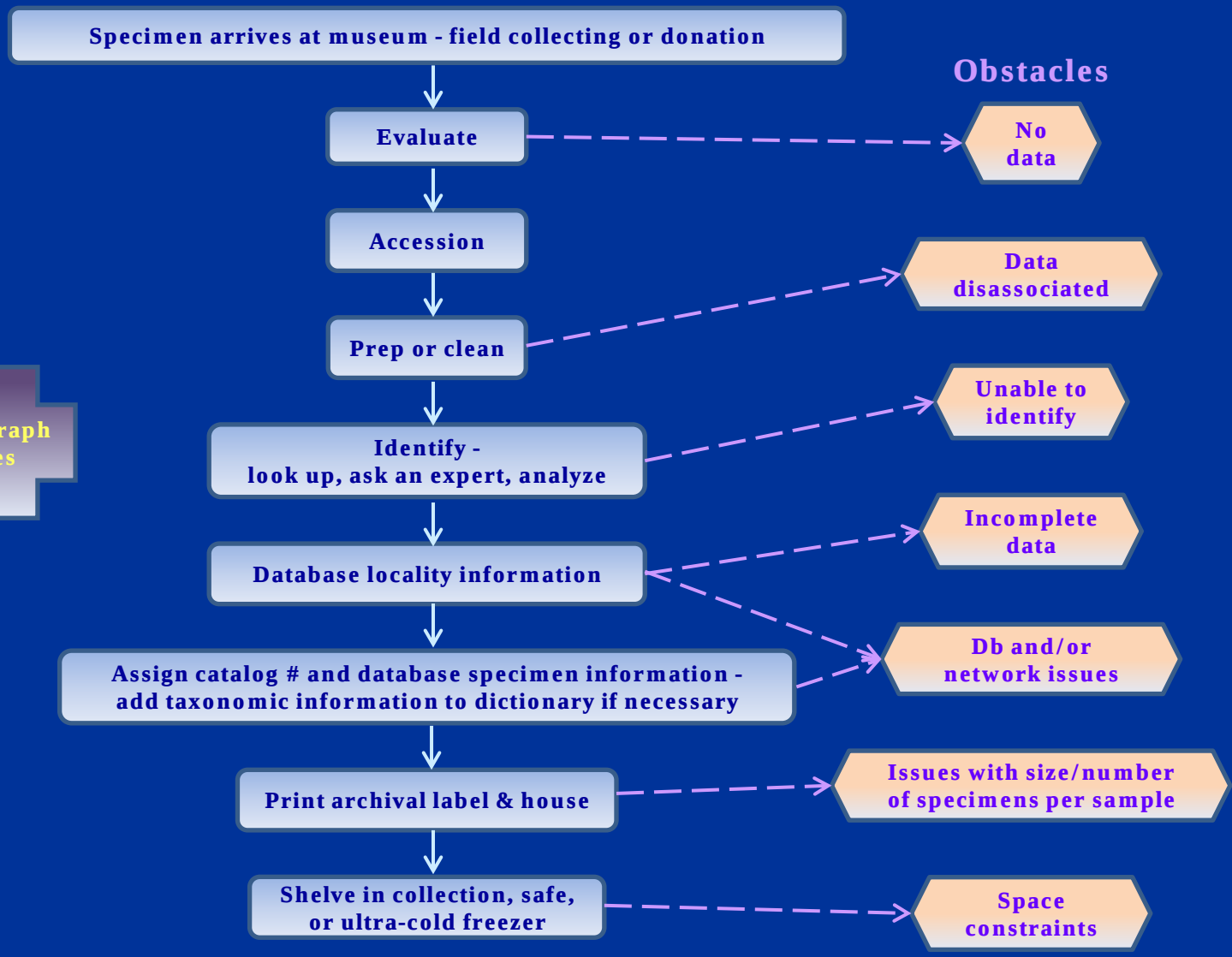
Duke Lemur Center Division of Fossil Primates



Digitization of the 128,988 specimens of the North Carolina Museum of Natural Sciences Geology/Paleontology Collections

Patricia G. Weaver

Workflow



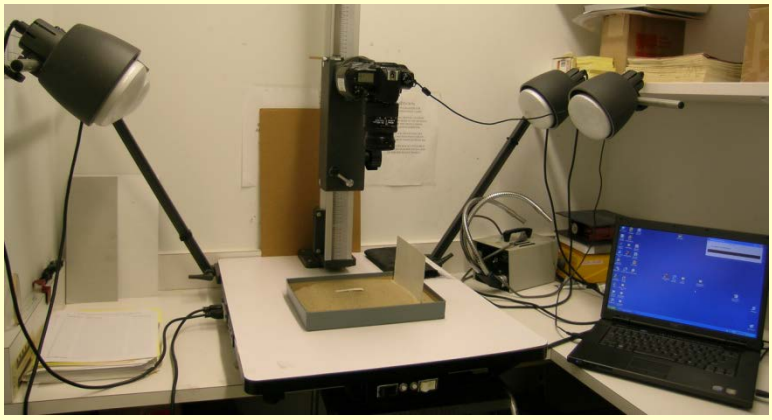
Digitization of Paleobotanical Type Specimens at the Peabody Museum

Shusheng Hu

Division of Paleobotany, Peabody Museum, Yale University, New Haven, CT 06511

- About 4500 paleobotanical type specimens
- From about 120 papers published between 1849 to 2011

- Digitization workflow
  1. Verify specimen information
  2. Catalogue specimens
  3. Photograph specimens by Nikon digital camera D100 and software Nikon Camera Control Pro 2
  4. Check image quality and rename images with specimen numbers by Adobe Bridge CS4
  5. Edit images



Ron Eng
Burke Museum Paleontology Collections
http://www.burkemuseum.org/paleontology

Invertebrate Paleontology, macrofossils	1,600,000 specimens
Invertebrate Paleontology, microfossils	2,000,000 specimens
Vertebrate Paleontology	58,000 specimens
Paleobotany	56,000 specimens
Recent Mollusca	240,000 specimens

iDigBio
select specimens to be digitized
do an initial check and revision/correction of the collections data
pull the specimens
flag storage locations to facilitate return
bring specimens to the photographic work station
set up photographic work station: copy stand, camera and lights
check camera settings
format images (include scale)
capture images (multiple images of some specimens)
image associated data (sketches, maps, labels, etc.)
flag or mark specimens that have been imaged (include the date)
perform image quality control
rename image files (convention to be established)
add Exchangeable Image File Format (EXIF) metadata
upload images to FileMaker Pro database

Simplified Digitization Workflow
Division of Paleobotany
Natural History Museum and Biodiversity Research Institute
University of Kansas

Amherst College Digital Collections

acdc.amherst.edu

Beneski Museum of Natural History

- 10 collections; 10 FMPro dbs; 200,000 objects; no public interface
- 2011: IT & Library explore how to create college-wide digital asset management and discovery system—selected a Fedora-based system—acdc.amherst.edu/wiki for details
- 2012: Beneski Museum invited to join—focus on ichnology collection database—approx 1,100 specimens
- 2013: clltn manager and digital projects librarians develop a metadata application profile and XML schema that draw upon elements of Darwin Core, Dublin Core, and local fields from the FMPro db
- Challenges: extensive data clean-up required; perceived or actual lack of data presentation standards; for metadata—existing standards (e.g.,Darwin Core) often less appropriate for paleontological clltns

Special thanks to K. Shepard, M. Fredette and K. Gerrity of the Frost Library, Amherst College