**Lesson Plan – Introduction to Neotoma**

Montreal, April 30, 2019, 3-5pm

Instructor: Jack Williams, UW-Madison

Audience: Grad students and faculty, broad mix of interests.

NOTES

This workshop follows my dept seminar and is only 2 hours, so am keeping introductory powerpoint short.

MATERIALS

* Flash drives with Tilia installer, a .txt file with the User Name and Product Key, and any example files or PowerPoint presentations.

GOALS

Introductory training in exploring, visualizing, and teaching with Neotoma resources, specifically:

* Neotoma Explorer & Stratigraphic Diagrammer
* DOIs and landing pages
* Tilia
* Curricular materials available at SERC
* APIs & R

WALKTHROUGH

**Part I**

1. Presentation (20 min)
2. Neotoma Explorer walkthrough (40 min)
   1. Searching for Data
      1. By Site Name
   2. Stratigraphic Diagrammer
   3. More Searches
      1. By Taxon (Spruce)
      2. By Time
      3. By Investigator (Pierre Richard)
      4. By Dataset type (pollen)
   4. Download data as a CSV file
   5. Saving a search and dragging it back to screen
3. DOIs
   1. <http://data-dev.neotomadb.org/3565> (Pierre Richard site)
   2. Note the frozen and current versions of the data.
4. Tilia
   1. Download data
   2. Search by Author (have to download list of names first)
   3. Do a correction
5. APIs
   1. get datasets
   2. base tables
6. Curricular Materials
   1. Point folks to website at <https://serc.carleton.edu/neotoma/activities.html>
7. R package
   1. Won't have much time, so point to RMD script, the downloading of neotoma package and basic get site, get dataset commands