



Silurian Reef Digitization Project

Follow A Fossil Full Circle

From Collection, To Research, To Outreach, And Interpretation

Through The Field Museum's Silurian Reef Digitization Project



Paul Mayer Alex. P. Layng Kathryn Albright Ryan Manzuk









My talk will focus on these two specimens of Dawsonoceras annulatum





430 million years ago *Dawsonoceras annulatum*, an orthoconic nautiloid cephalopod, jetted between reefs on a tropical, carbonate platform munching on trilobites.

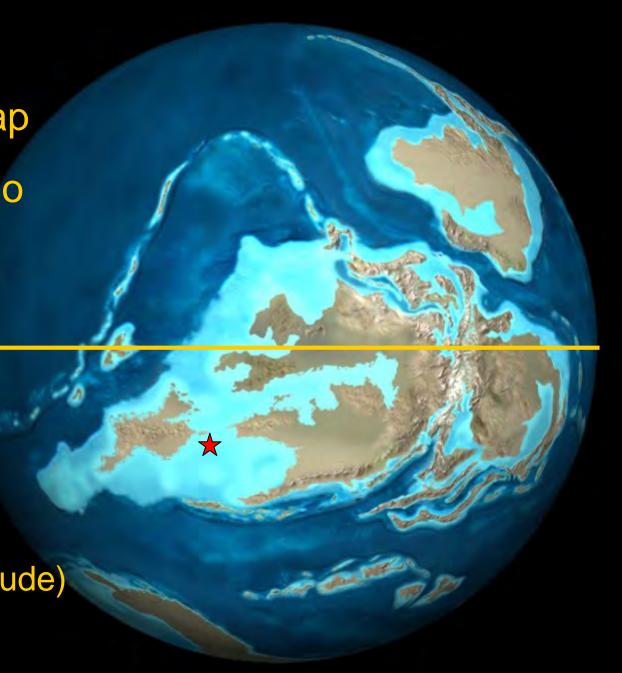
Diorama at National Museum Cardiff

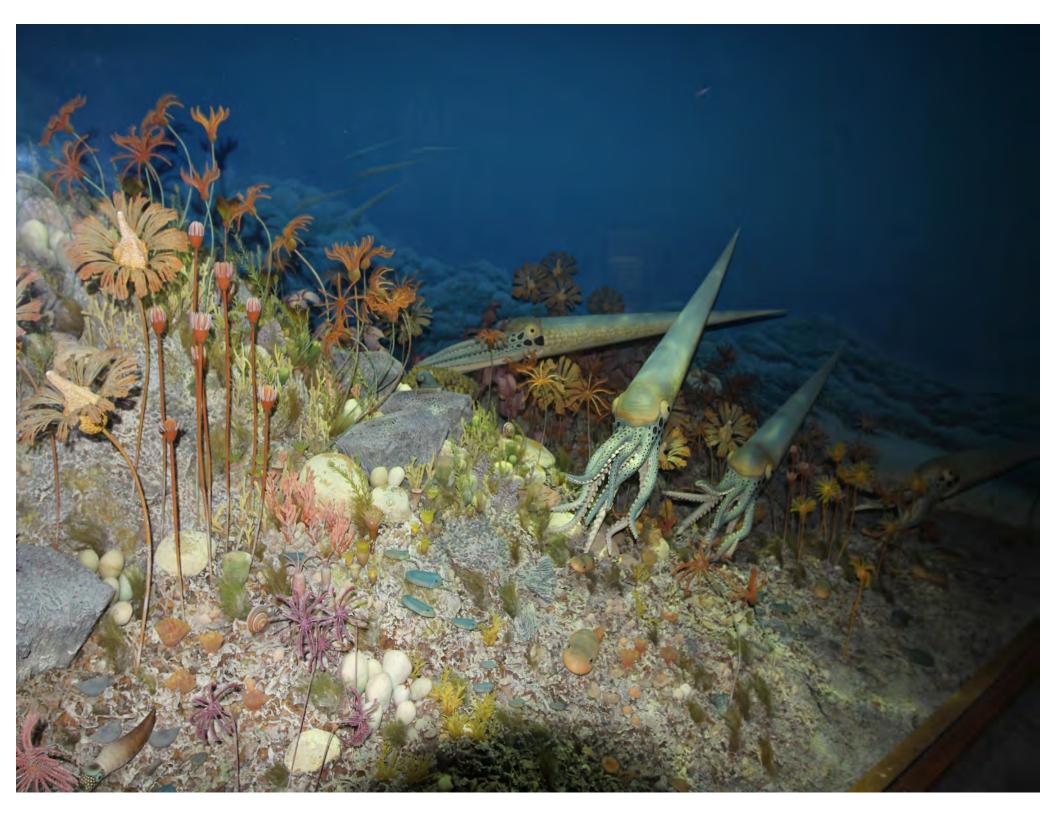
Silurian Paleogeographic map

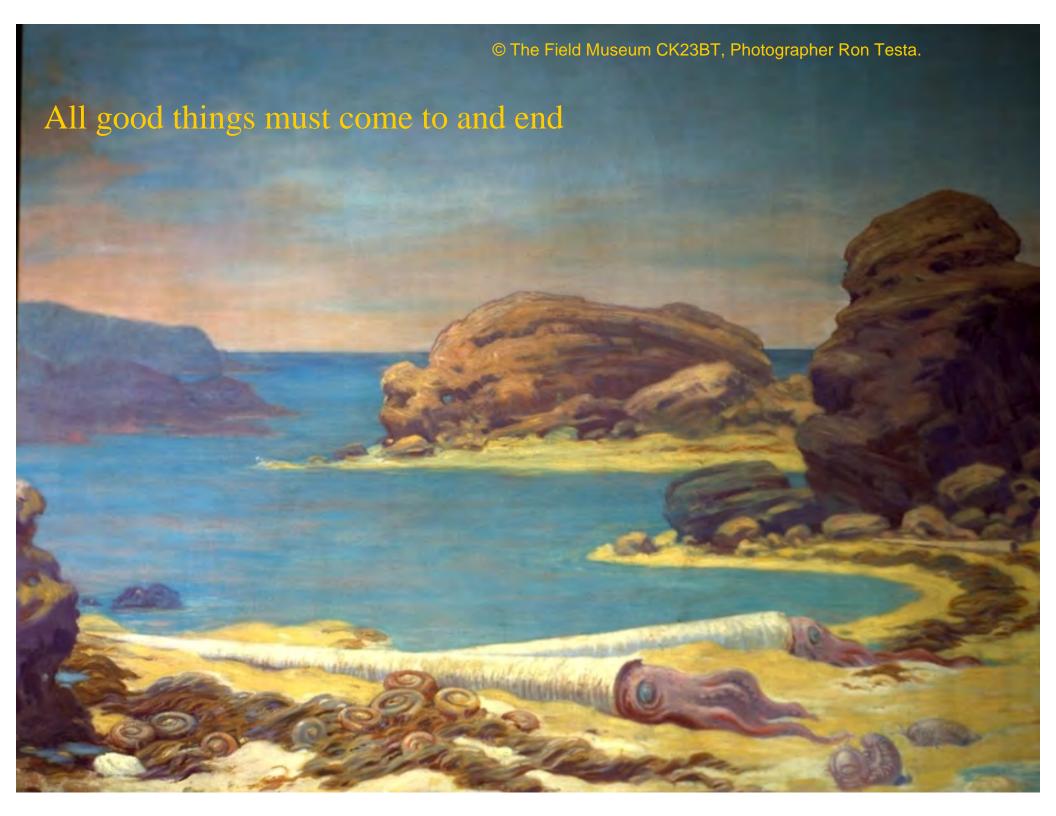
430 million years ago

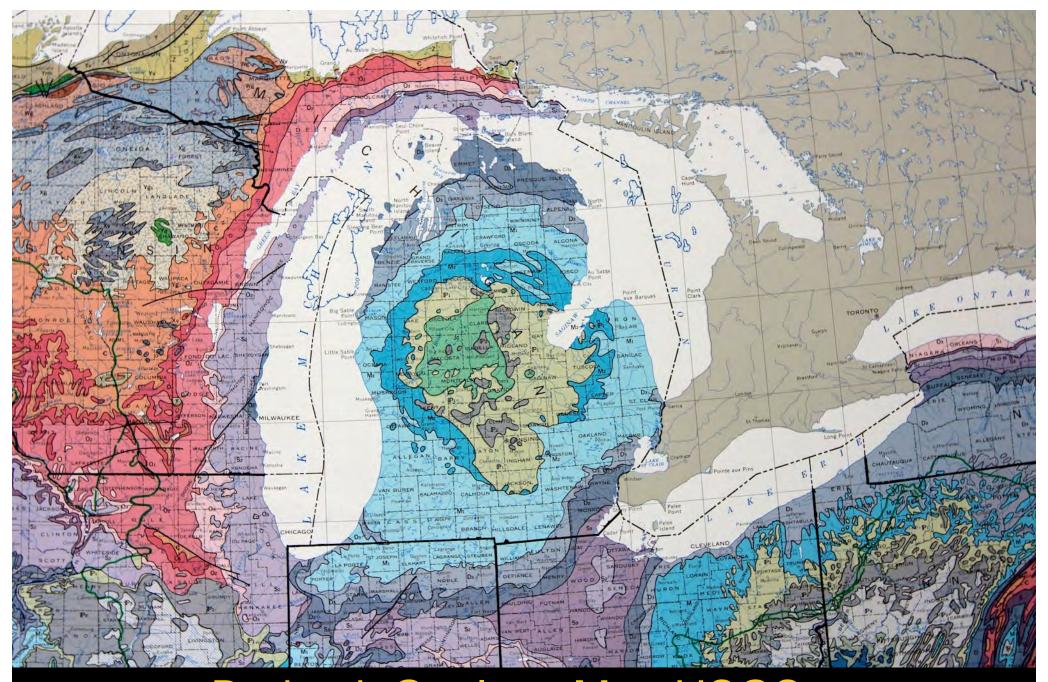


- Tropical (17° South Latitude)
- Carbonate platform



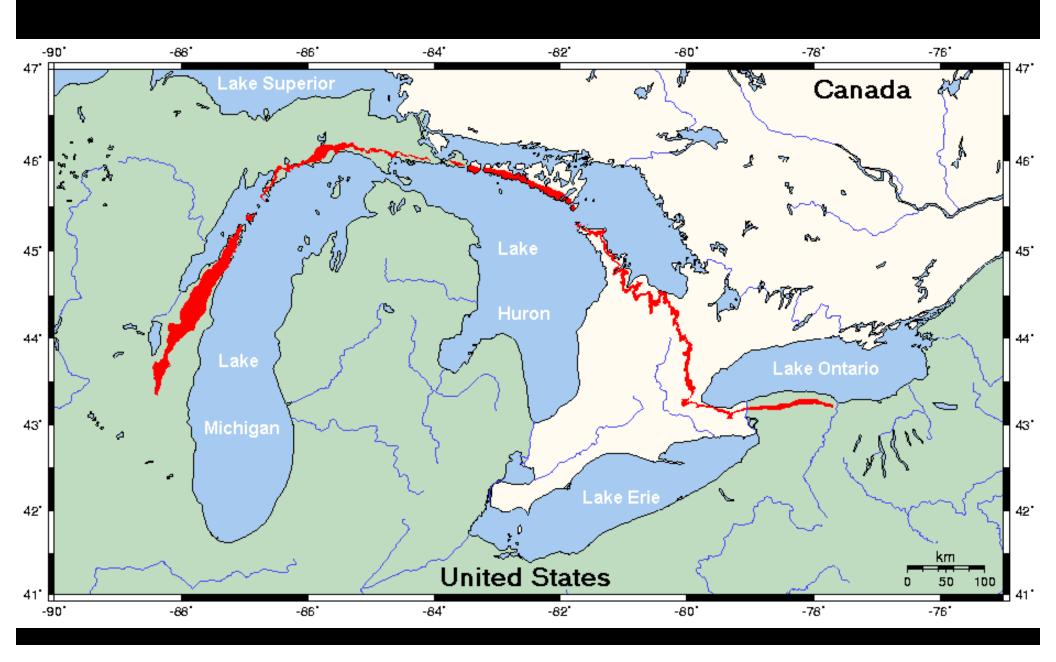






Bedrock Geology Map USGS Grayish-purple is Silurian age rock

Niagara Escarpment

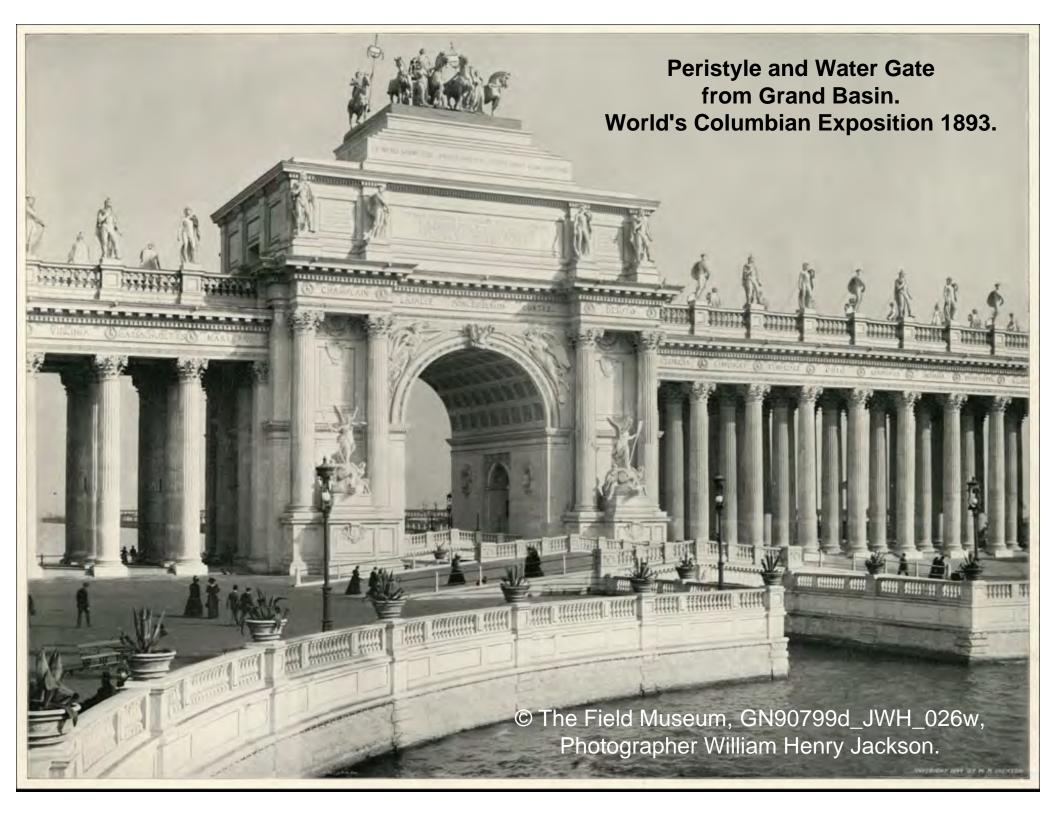










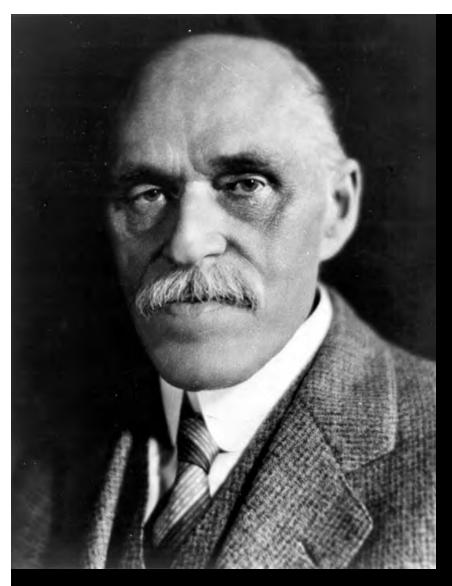


407 Silurian fossils in Ward's collection, 69 of them were from Illinois including Daenerys

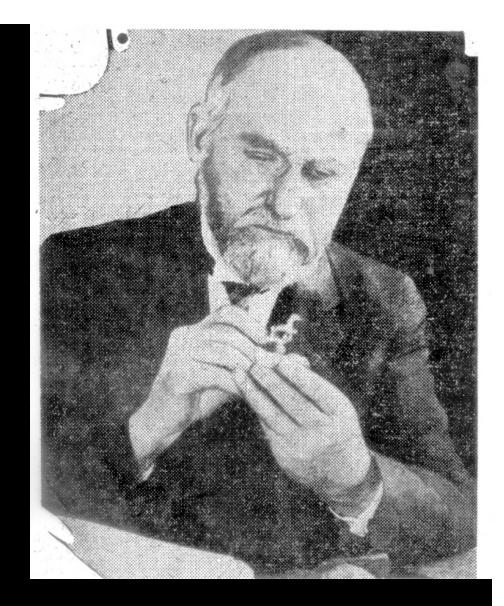


Image of Daenerys from 1899



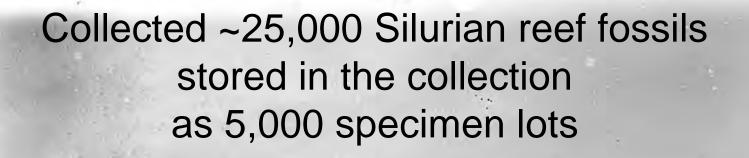


Oliver Cummings Farrington, Geology Curator



Arthur Ware Slocom, Fossil Invertebrate Curator









Tyrion, an Internal model, and an impression of an orthoconic nautiloid cephalopod Fossil (*Dawsonoceras annulatum*).

Photographed in 1913

Possibly these negatives were made for Fossil Collecting by Dr A. W. Slocom, Assistant Curator, Division of Invertebrate Paleontology, Field Museum Thirty eighth free illustrated lecture course Date March 8, 1913



Early Geological History of Chicago

BY

HENRY W. NICHOLS

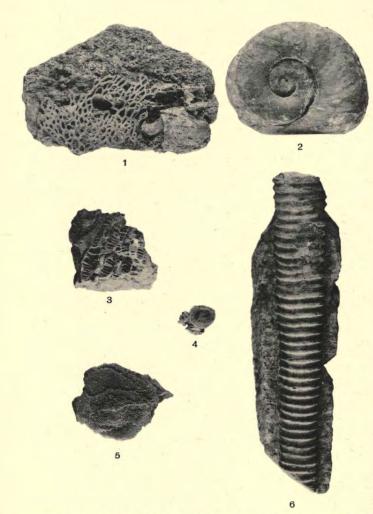
ASSOCIATE CURATOR OF GEOLOGY



GEOLOGY LEAFLET 7

FIELD MUSEUM OF NATURAL HISTORY CHICAGO LEAFLET 7.

PLATE IV.



COMMON FOSSILS FROM THE NIAGARA LIMESTONE OF CHICAGO.

1, CORAL, CLADOPORA. 2, COILED CEPHALOPOD, NAUTILUS. 3, CORAL, DIPHYPHYL-LUM. 4, CUP CORAL, OMPHYMA. 5, COMPOUND CORAL, FAVOSITES. 6, STRAIGHT CEPHALOPOD, ORTHOCERAS.

Image of Daenerys from 1925

Daenerys was on display in the Fossils of the Chicago case in the Frederick J. V. Skiff Hall (Hall 37) from 1951 to 1992



In 1968 Daenerys makes her television debute with Ernest Roscoe in "Down to Earth," for the New Trier Township Instructional Television. The film was video-taped at the Museum and has been presented on educational closed-circuit television at several North Shore schools.





New Reef model of Chicago

Silurian (430 million years ago) sea life diorama, shows models of Chicago area Life Over Time exhibit



Daenerys on display in the background of Brain Scoop Episodes "Ask Emily #7" January 8, 2014 and "The Nondenominational Holiday Botanical Celebration", December 25, 2013

BRAIN SCOOP







Tyrion on display
at the
2015 ESCONI
Gem, Mineral and Fossil
Show
on the
DuPage County
Fairgrounds.

Tyrion on display for the behind the scenes FMNH Members Night May 14-15, 2015





Interns move specimens from Collection range to digitization lab

Carts hold 6 drawers

Digitization lab with three workstations:

- 1. Label Photography
- 2. Specimen photography
- 3. KE EMu data entry



Ryan Manzuk Label Photography Workstation

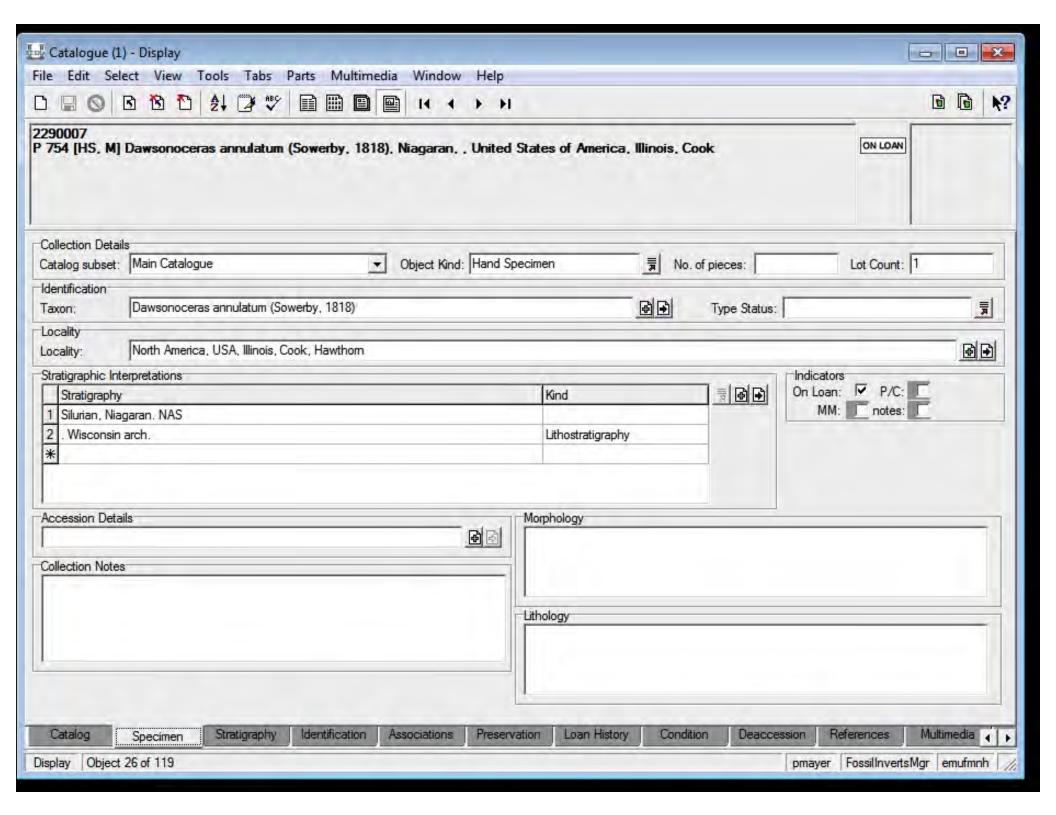




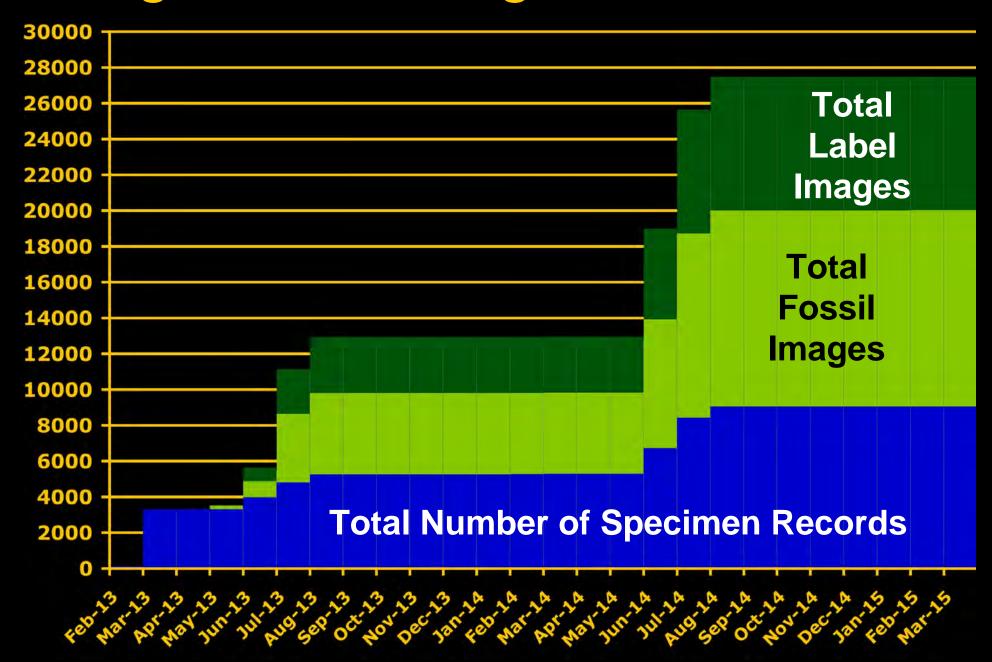
Alex Layng
Fossil Photography
Workstation

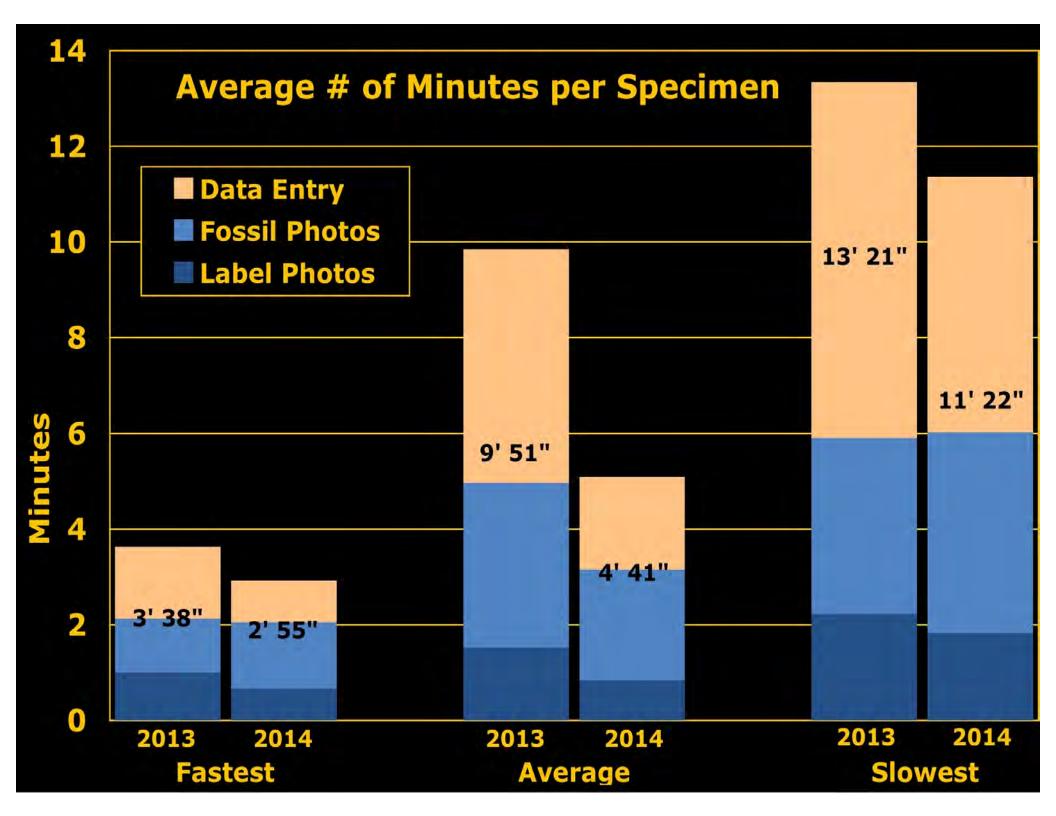
Kathryn Albright Entering data from digitized label photograph into KE EMu

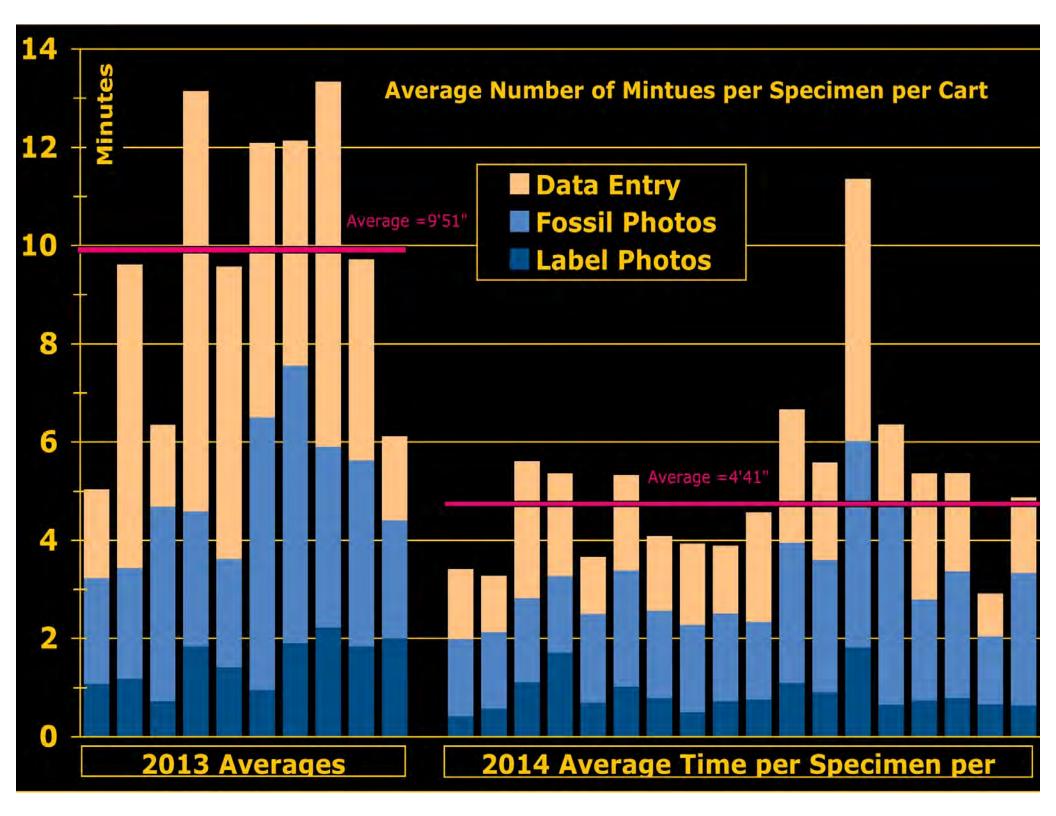


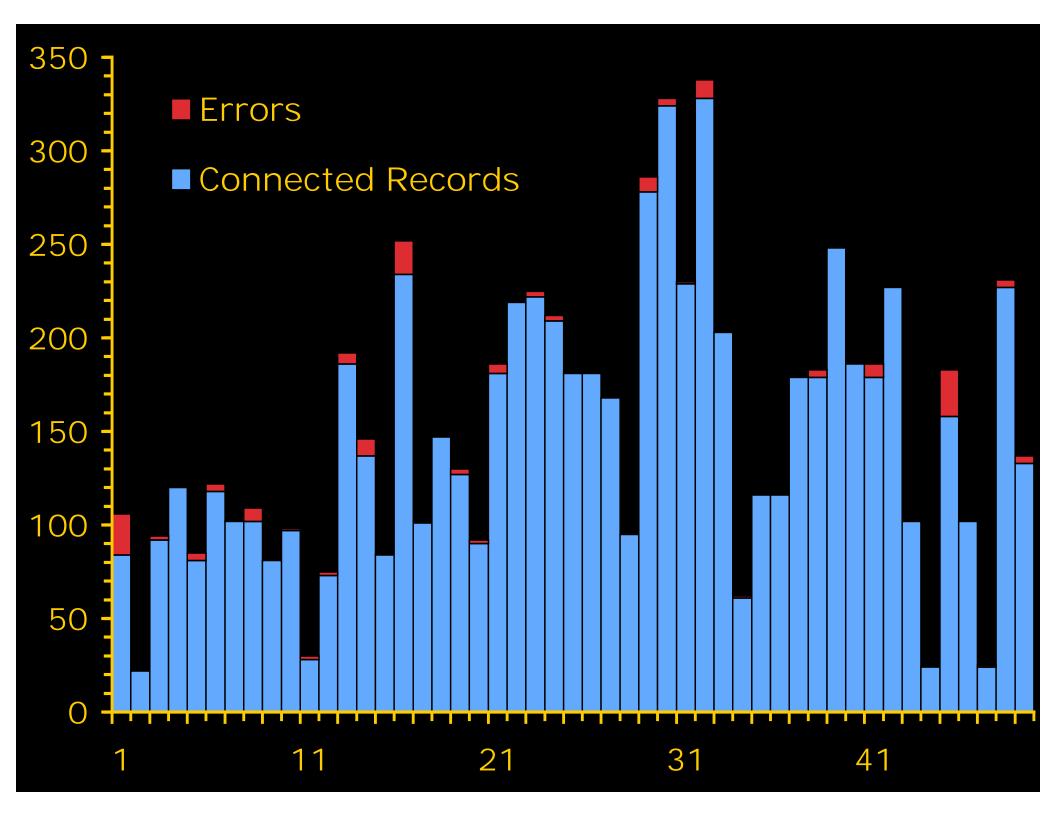


Digitization Progress at FMNH





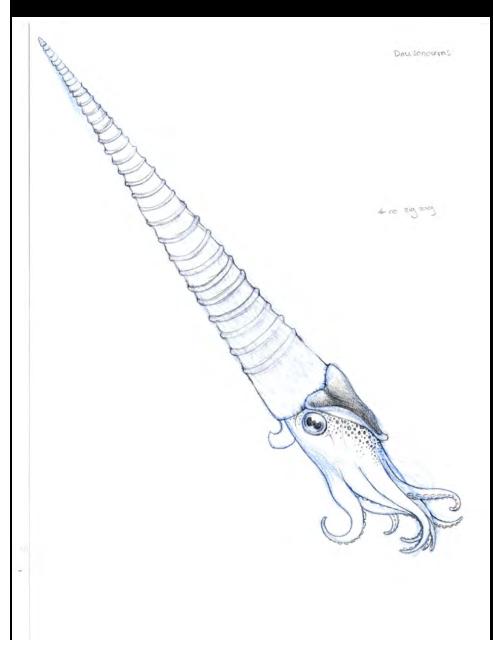


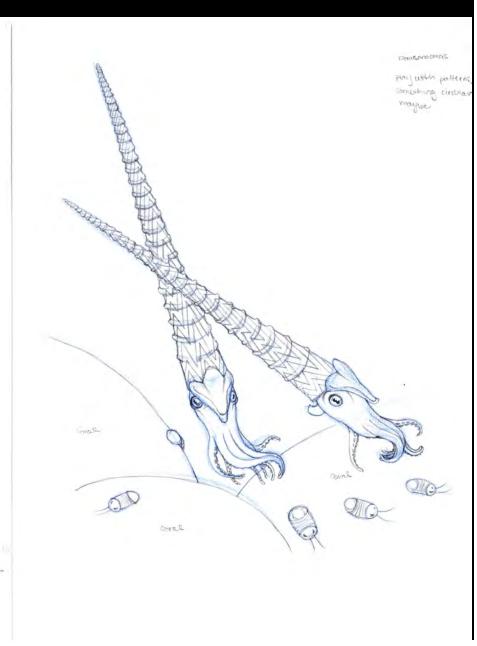


Mary Williams, Scientific Illustrator, using Tyrion as a model



Initial sketches for *Dawsonoceras* by Mary Williams



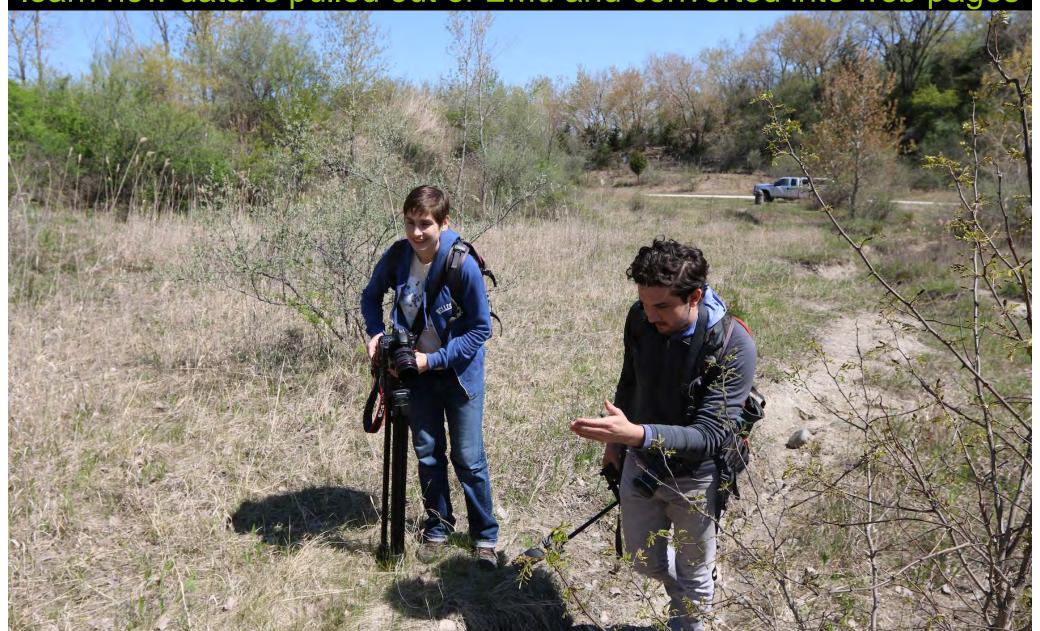


Final Sketch of Dawsonoceras by Mary Williams



Kate Webbink and Marc Lambruschi

See their Demo at 3:30pm this afternoon Century Ballroom B and learn how data is pulled out of EMu and converted into web pages





Paul Mayer
Fossil Invertebrate Collections Manager
at the Field Museum
Chicago, Illinois

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