

**ABOUT** NEWS BROWSE JOIN **EDUCATION** 

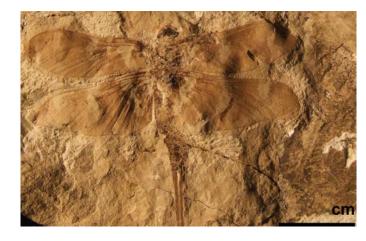












# Digitize and make available all the major collections of fossil insect specimens in the United States

- digitize fossil insects to help us understand biotic response to environmental change and patterns of biodiversity
- use digitized fossil insects for taxonomic and phylogenetic studies
- broader impacts:





18.

Making data and images of millions of insect specimens available on the web

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Search























6 Microgastrinae

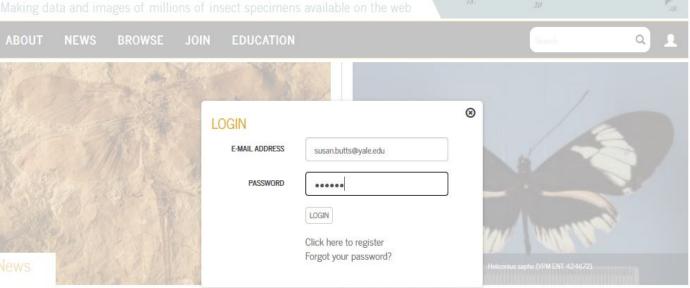
- KATJA SELTMANN











**Entomological Collections Network** 

















National Museum of Natural History



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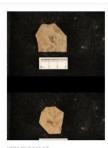
Sea











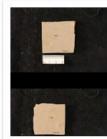
YPM IP 041147 undet. Diptera Common Name: True flies, Mos... Fossil Deposit: Green River Fm



YPM IP 585232 undet. Insecta Common Name: Insects Fossit Deposit: Green River Fm



YPM IP 050227 undet. Hexapoda Common Name: Hexapods Fossil Deposit: Antero Fm



YPM IP 793159 undet. Diptera Common Name: True flies, Mos... Fossil Deposit: Green River Fm



Illinois Natural History Survey Sam Noble Oklahoma Museum of Natural History

Smithsonian National Museum of Natural History

Virginia Museum of Natural History Yale Peabody Museum of Natural History

HAS MEDIA

Has media

Does not have media

FOSSIL/MODERN Fossil

Modern

COMMON NAME Antlike leaf beetles

Ants

Ants, bees, and wasps

Ants, bees, narrow-waisted hymenopterans, and true wasps

Aphids

Arachnids

Arthropods

and 97 more

PERIOD Cambrian

Campanian



YPM IP 794287 undet Diptera Common Name: True flies, Mos... Fossil Deposit Green River Fm



YPM IP 015702 Permoblattina permiana Common Name: Arthropods Fossil Deposit: Wellington Fm



YPM IP 522017 undet. Coleoptera Common Name: Beetles Fossil Deposit: Green River Fm



YPM IP 040753 undet. Ephemeroptera Common Name. Insects Fossil Deposit: Welllington Fm











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**Ⅲ≡0** 



### 6292 SPECIMEN RESULTS \*

SOURCE: YALE PEABODY MUSEUM OF NATURAL HISTORY @ FOSSIL/MODERN: @ HAS MEDIA: HAS MEDIA @



YPM IP 000001 Corymbites granulicollis Common Name: Beetles Fossil Deposit Florissant Lake...



YPM IP 000019 Syntonoptera schucherti Common Name: Insects Fossil Deposit: Carbondale Fm



YPM IP 000034 Gerarus collaris Common Name: Insects Fossil Deposit Carbondale Fm



YPM IP 000039 Apithanus jocularis Common Name: Insects Fossil Deposit: Carbondale Fm



COMMON NAME

Ants

Ants, bees, and wasps

Ants, bees, narrow-waisted hymenopterans, and true wasps

Aphids

Arthropods

Bee fly

Beetles

and 57 more

PERIOD

Cenozoic

Early Jurassic

Early Late Cretaceous

Early Permian

Late Cretaceous

Late Jurassic

Late Pennsylvanian

and 6 more

CONTINENT

Europe

North America

**GENUS** 

Acrocera

Actea

Anthracothremma

Anthrakoris

Aphaenogaster

Apithanus Artinska



YPM IP 000040 Narkema taeniatum Common Name Insects Fossil Deposit: Carbondale Fm



Cheliphlebia mazona Common Name: Insects Fossil Deposit: Carbondale Fm



YPM IP 000101 Tipula rigens Common Name: True flies, Mos ... Fossil Deposit Florissant Lake...



YPM IP 000103 undet. Hymenoptera Common Name: Ants, bees, and... Fossil Deposit Florissant Lake...











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**Ⅲ≡0** 

SOURCE: YALE PEABODY MUSEUM OF NATURAL HISTORY @ FOSSIL/MODERN: @ HAS MEDIA: HAS MEDIA @



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and 57 more

PERIOD

Cenozoic

Early Jurassic

Early Late Cretaceous

Early Permian

Late Cretaceous

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and 6 more

#### CONTINENT

Europe

North America

**GENUS** 

Acrocera

Actea

Anthracothremma

Anthrakoris

Aphaenogaster

Apithanus Artinska





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YPM IP 000034 Gerarus collaris Common Name: Insects Fossil Deposit Carbondale Fm



YPM IP 000039 Apithanus jocularis Common Name: Insects Fossil Deposit: Carbondale Fm



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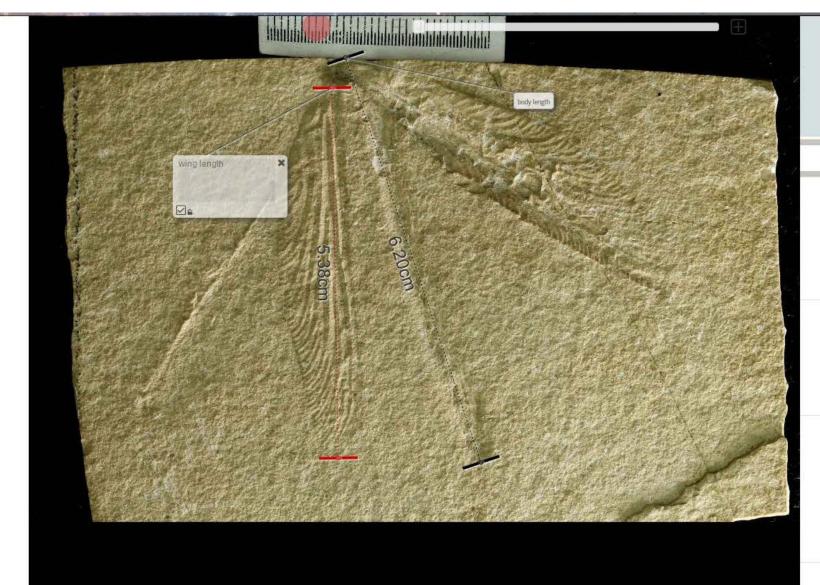


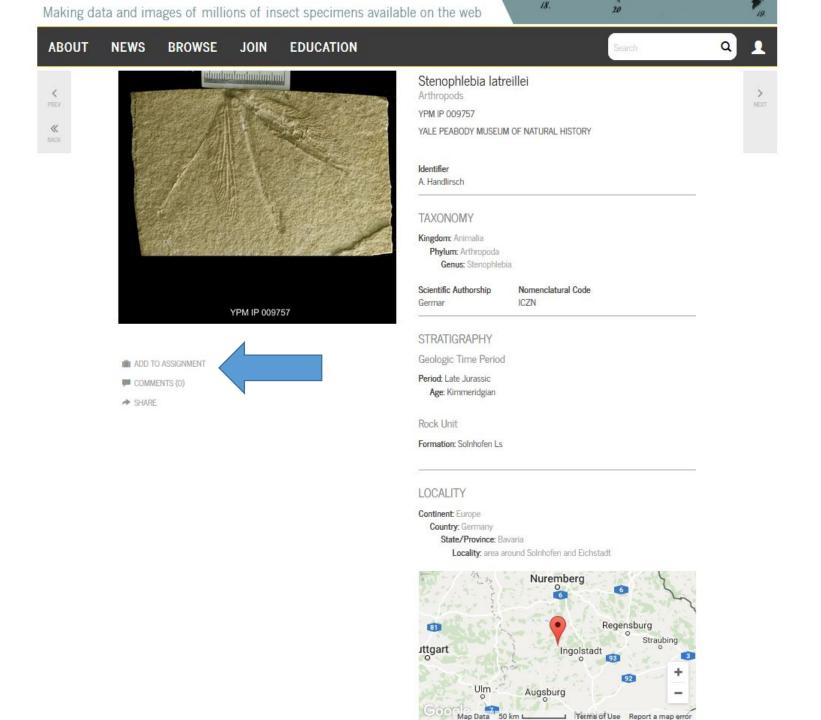




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#### Geology 540 Green River Field Trip









YPM IP 320691, undet. Tipulidae



SAVE



YPM IP 454192, undet. Syrphidae



YPM IP 522042, undet. Staphylinidae



YPM IP 793883, undet. Orthoptera

Tipulidae



MCZ:Ent:PALE-20520, Vespidae sp.



YPM IP 522124, undet. Trichoptera



YPM IP 389118, undet. Ichneumonidae



MCZ:Ent:PALE-20518, Palaeovespa gillettei



YPM IP 320687, undet. Hymenoptera



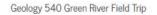
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### « RIO BLANCO FIELD TRIP (16 Items)



III @

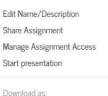
SAVE













YPM IP 320691, undet. Tipulidae

YPM IP 237183, undet. Tipulidae

Checklist [pdf]

All assignments

PDF (thumbnails) [pdf] Excel (basic information) [xlsx]

PowerPoint (basic information) [pptx]

New Assignment

New User Group

Manage Your User Groups



MCZ:Ent:PALE-20520. Vespidae sp.



YPM IP 454192, undet. Syrphidae



YPM IP 522042, undet. Staphylinidae



YPM IP 793883, undet. Orthoptera









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## IIII ■ Ø

#### 267026 SPECIMEN RESULTS \*



Fossil Deposit: Green River Fm:



Fossil Deposit: Green River Fm.



Fossil Deposit Green River Fm



PAL58421211708388

PAL581439:11705977

Fossil Deposit Green River Fm



SOURCE

Harvard Museum of Comparative Zoology

Illinois Natural History Survey

Sam Noble Oklahoma Museum of Natural History

Smithsonian National Museum of Natural History

Virginia Museum of Natural History Yale Peabody Museum of Natural

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PERIOD Cambrian

Campanian Carboniferous

Fossil Deposit: Green River Fm



Fossil Deposit: Green River Fm

Fossil Deposit Green River Fm Fossil Deposit Green River Fm



Fossil Deposit: Green River Fm

PAL581098.11705636

Fossil Deposit: Green River Fm



Fossil Deposit Green River Fm





# Coming Soon!



Cretaceous Western Interior Seaway

## How we got here...

# A database is not enough.

- lesson plans based on NGSS+
- provide curated collections (assignments)
- provide background materials
- provide videos from collections/field
- incorporate common names and paleogeography



iDigPaleo Teacher Workshop Yale Peabody Museum July 20-21, 2015

## Thanks to:



