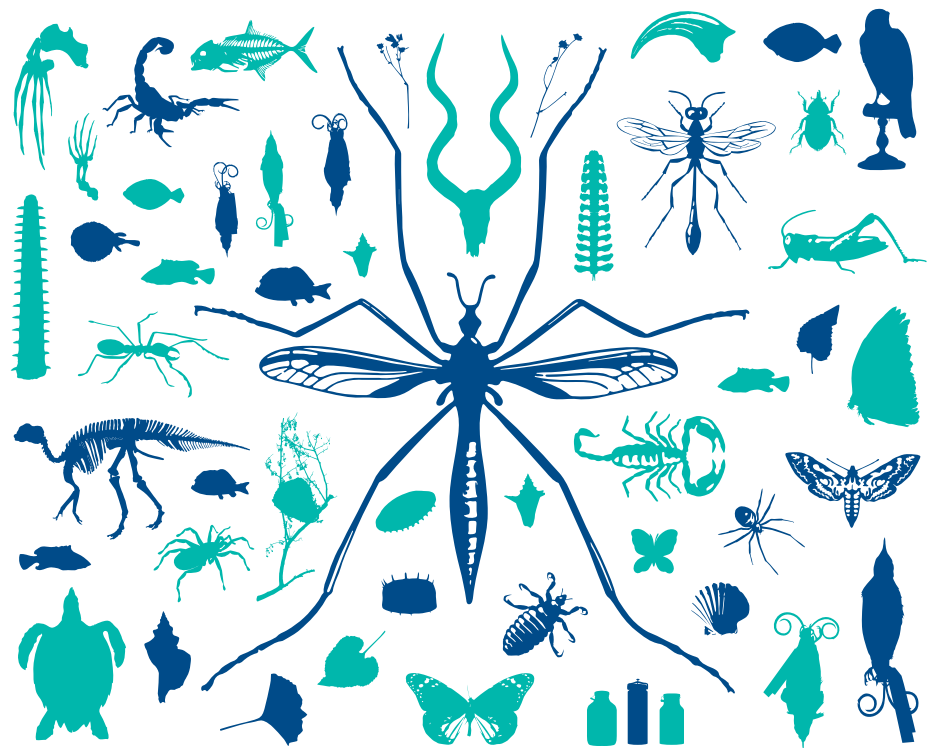


9th Annual

# MEMBERS' NIGHT



Friday, September 30, 2016

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THE ACADEMY  
OF NATURAL SCIENCES  
*of* DREXEL UNIVERSITY

PROGRAM

## Welcome to our Ninth Annual Members' Night—an exclusive look behind the scenes at the Academy!

We've had another fantastic year here at the Academy, and our museum has been filled with over 200,000 visitors enjoying special exhibitions like *Reptiles: The Beautiful and the Deadly* and *Tarantulas: Alive and Up Close*. Thousands of our members and their families took advantage of their special status and visited multiple times!

We have a wonderful slate of exhibits coming up this year, including our roaring, moving dinosaurs in *Dinosaurs Unearthed*, on view until January 16. Then take in our live animal exhibit, *Frogs: A Chorus of Colors*, which opens on February 4. At the beginning of next summer, leap into a garden of wonders and experience the magic of the world around you through play in *Backyard Adventures*.

Our scientists have been enjoying their own adventures around the world, and they've brought back their exciting discoveries to share with you tonight during Members' Night. Tonight you'll have a unique chance to meet our researchers, scientists, and educators behind the scenes and participate in some great activities that showcase the kind of work they do every day. Check out precious mineral specimens, use black lights to bring out patterns on faded specimens from the Ichthyology Collection, learn how to make invisible ink, prepare herbarium specimens to take home, and much more!

Don't forget to cast your vote tonight for your favorite activity by putting the name of the activity and department on the ballot in the back of your program and dropping it in the box in our main lobby. Who will be this year's winner of the Members' Choice Award? Cast your vote and find out!

Thank you for your support of the Academy. Our members are very important to us! I hope you have a wonderful night.

All the best,



George W. Gephart, Jr.  
President & CEO



EXPERIENCE  
ACADEMY  
SCIENCE  
HANDS-ON!





EXPLORE  
BEHIND  
THE  
SCENES!



We will be taking photographs tonight at Members' Night, and images may be used in Academy promotional materials. Please let our photographers know if you do not want your photograph to be taken. Thank you!

## Navigation Tips

### Maps

The light blue and navy blue areas on the following maps illustrate the locations of Members' Night activities on each level.

**LIGHT BLUE**  
areas indicate  
public areas of  
the museum.

**NAVY BLUE**  
areas are  
behind the  
scenes.

### Helpful Hint

To avoid crowds, try starting on the upper levels and working your way down.

### Elevators

The elevators do not go to every level. They are color coded to help you find your way. Elevator operators will assist you.



**Orange (Butterfly)  
Elevator:**  
Ground Level-4



**Blue Elevator:**  
Level 1-6



**Green (Dinosaur)  
Elevator:**  
Level 1-4



**Yellow Elevator:**  
Ground Level, 1, and 5



# Ground Level



## Academy Café:

Open until 9 p.m.  
Members receive a  
10 percent discount.

## Buffet Dinners:

5:30 and 6:30 p.m. in  
the Commons. Tickets  
may still be available.  
Check in the Café for  
more details.

## Restrooms:

Located on the  
Ground Level.



# Level 1

## A Whose Skin Is This?

Guess which fur belongs to which animal  
at this touch table.

## B Dino Discoveries in the Bighorn Basin

Find out what we dug up in Montana and  
Wyoming this summer with a cool video. Help  
our fossil prep staff clean fossils from this past  
season!

## C Human Board Game

You are the game piece as you roll the dice and  
answer questions about climate change to  
move around a human-size game board.

## D The Big Dig

Unearth dinosaur skeletons on the Mezzanine.

## E A Peek Into the Mineral Vault

Take a look at beautiful and rare mineral  
specimens from the Vaux Collection.

## F A Highly Inaccurate Depiction of the Natural World (Auditorium)

Find out what has been mistaken as correct  
about natural history during this humorous  
presentation. Shows take place at 5:15, 6:15,  
7:15, and 8:15.

## G Collect Yourself! Be a Specimen in our Members' Night Collection

Scientists give every species a formal two-part  
name. Make yourself a specimen tag with  
your own formal name, and then get in our  
collection box for a photo!

## H Butterfly Shipment Surprises

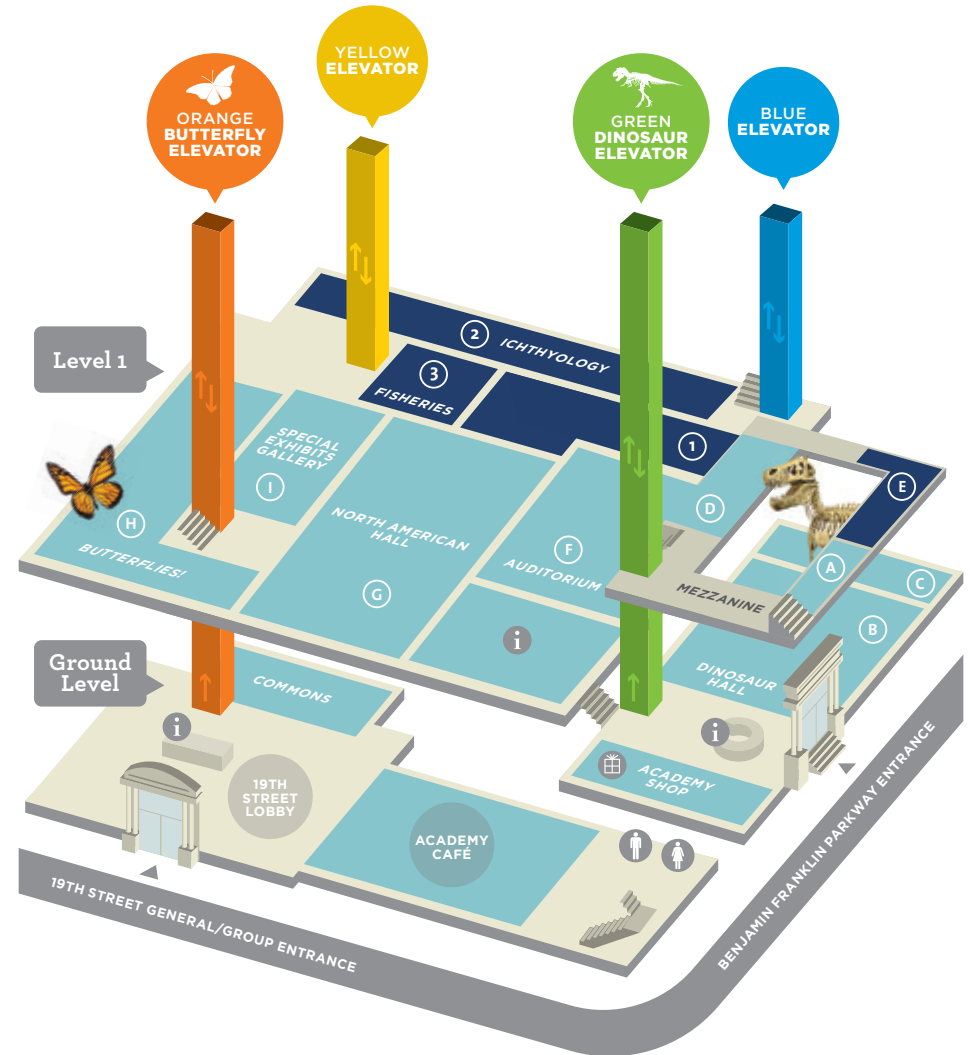
What hatches out of a butterfly chrysalis isn't  
always a butterfly! We'll have specimens and  
video of some of the most fascinating  
parasites we've encountered over the years in  
our butterfly shipments.

## I Light Up the Night With Dinosaurs! (Special Exhibit)

See *Dinosaurs Unearthed* in a new  
way—via flashlight!

## i Information Desks

**Academy Shop:** Open until 9 p.m.  
Members receive a 10 percent discount.



## 1 Disco Fish

Use black lights to bring out the color patterns  
on old, faded specimens from the collection.

## 2 Fish Show and Tell

View some of the Academy's most interesting,  
rare, and weird fish specimens from the  
collection.

## 3 Fish Bones

Take a look at the diversity of fish bones using  
specimens and models.

**A Return of the Mighty Mussel!**

Learn more about the ecological power and value of freshwater mussels, and see the results of Academy scientists' ongoing research on the Delaware and Schuylkill rivers.

**B Learn about the BEES Program at Drexel University**

Talk to students and faculty about Drexel University's exciting program focused on Biodiversity, Earth & Environmental Science.

**C Wader Waddle**

Dress like you're ready for science and race your family or friends in official field gear.

**D Stump the Staff**

Think you can stump our teachers? We will have some bizarre and unusual specimens from nature to test your natural history knowledge, and we want YOU to bring in your own unusual natural object or photo you took to test our staff! (Nothing alive please!) Win a prize if you stump our staff!

**E Drexel BEES Graduate Students at the Academy**

Hear from Drexel graduate students about the biodiversity research that they have been doing at the Academy.

**F Fun in the Wetlands!**

Learn how our wetlands team collects data in the field.

**G The Return of the Typewriters**

Use our manual and electric typewriters, which were (and still are!) important tools for the work that librarians and archivists do every day.

**H Color Our Collections**

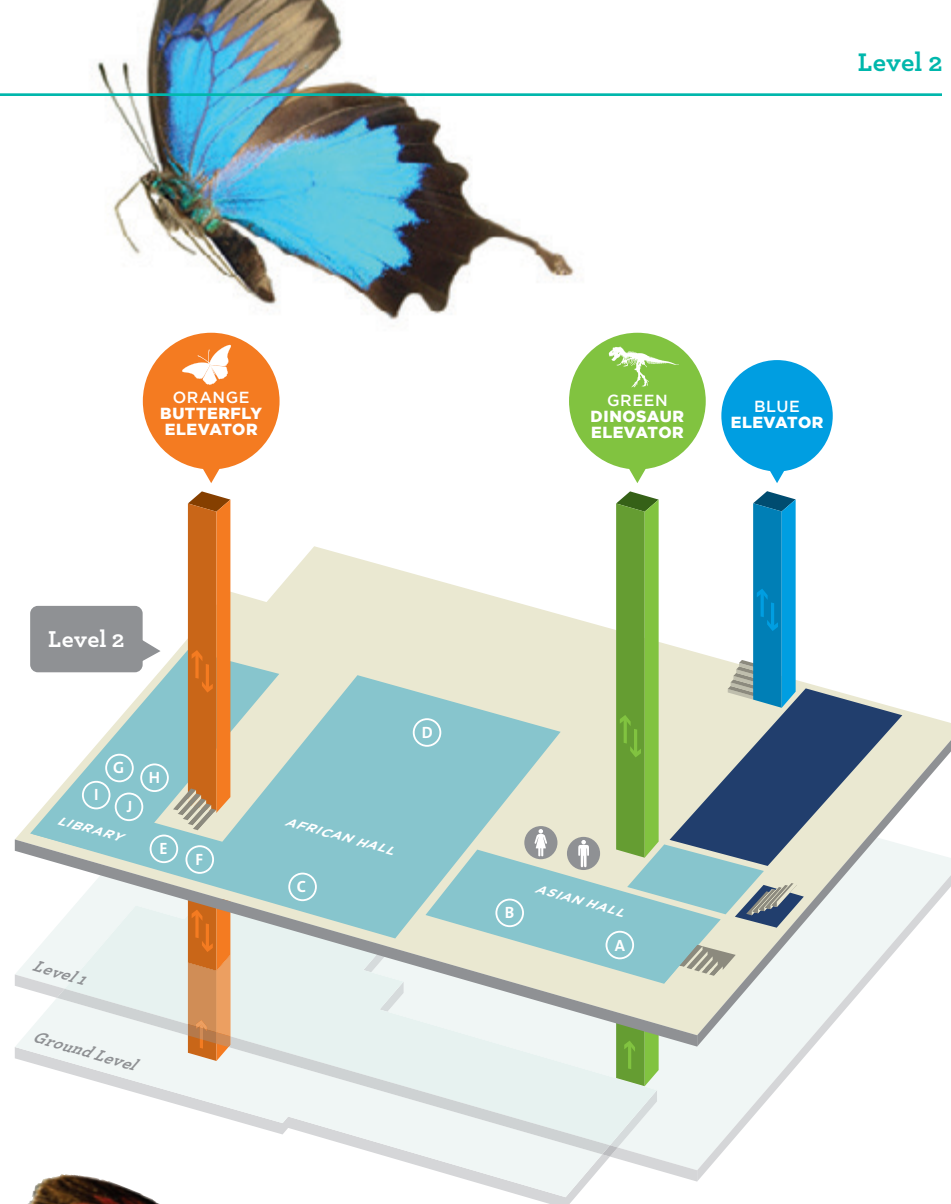
Pick up your own coloring book featuring items from the Library and Archives. Try to guess which things belong in the Library and which ones belong in the Archives!

**I What Would Wacky Ed Wear?**

Dress a paper doll version of the Academy's first Librarian (affectionately known as "Wacky Ed") in various costumes that can be colored and accessorized.

**J Create Your Own Reading Room Portrait**

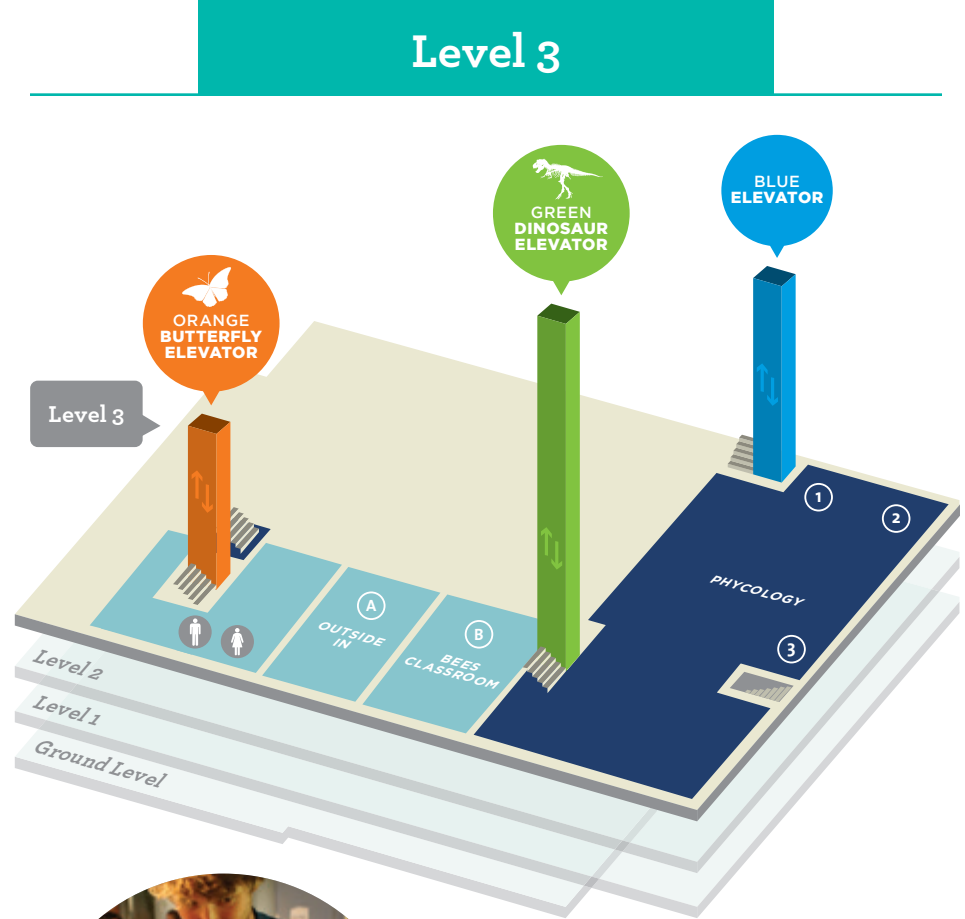
Using the frame and props provided, take your own formal portrait and see if it's worthy to go on our wall. (Our Facebook wall, that is!)







SEE THE  
SCIENCE  
BEHIND THE  
SCENES



#### **A Back to School! Animal Enrichment**

Learn your ABC's as you help us make enrichment toys for our Live Animal Collection! Find all the letters of the alphabet hidden in the exhibit during a scavenger hunt. Afterward make new toys to add to our collection.

#### **B Fun Chemistry Experiments!**

Make invisible ink, discover the earth with liquid densities of juice and cake coring, learn about tools of the trade, and watch an acetone experiment.

#### **1 Invasive Aquatic Organisms**

Learn about invasive aquatic species found in the Delaware River Basin.

#### **2 Capturing the Microscopic World of Algae**

See if you can spy microscopic algae!

#### **3 Water Visualizations**

Find out what our scientists have discovered about water quality from chasing storms and analyzing landscapes.





SEE  
TREASURES  
FROM THE  
COLLECTIONS

## 1 Spectacular Specimens

Come see some of the most beautiful insect specimens in our Entomology Collection!

## 2 Digital Natural History

See how data from the collection and archives comes to life to tell the story of the Academy's extraordinary Entomology Collection.

## 3 Curious Collections

Take a look at some of the odd collections and display techniques that are part of the Entomology Collection.

## 4 Bird Specimen Preparation

See how our ornithologists prepare bird specimens and collect valuable biodiversity data for the museum's scientific collections.

## 5 Terrific Teeth: Nature's Tool Kit

Biting, slicing, grinding, stabbing, crushing, and cutting! Come see fossil teeth that help us understand the diets of ancient animals.

## 6 Beach Party

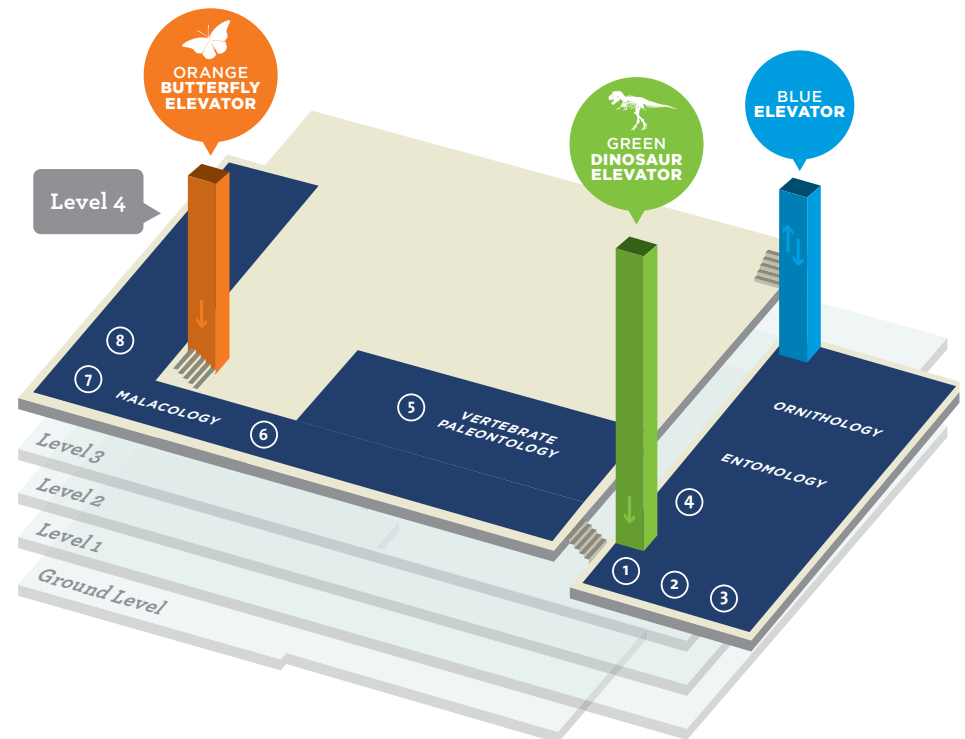
The ever-popular beach is back! Pick out and identify shells, and find one to add to your own collection.

## 7 Mollusk Dissections and Anatomy Sketches

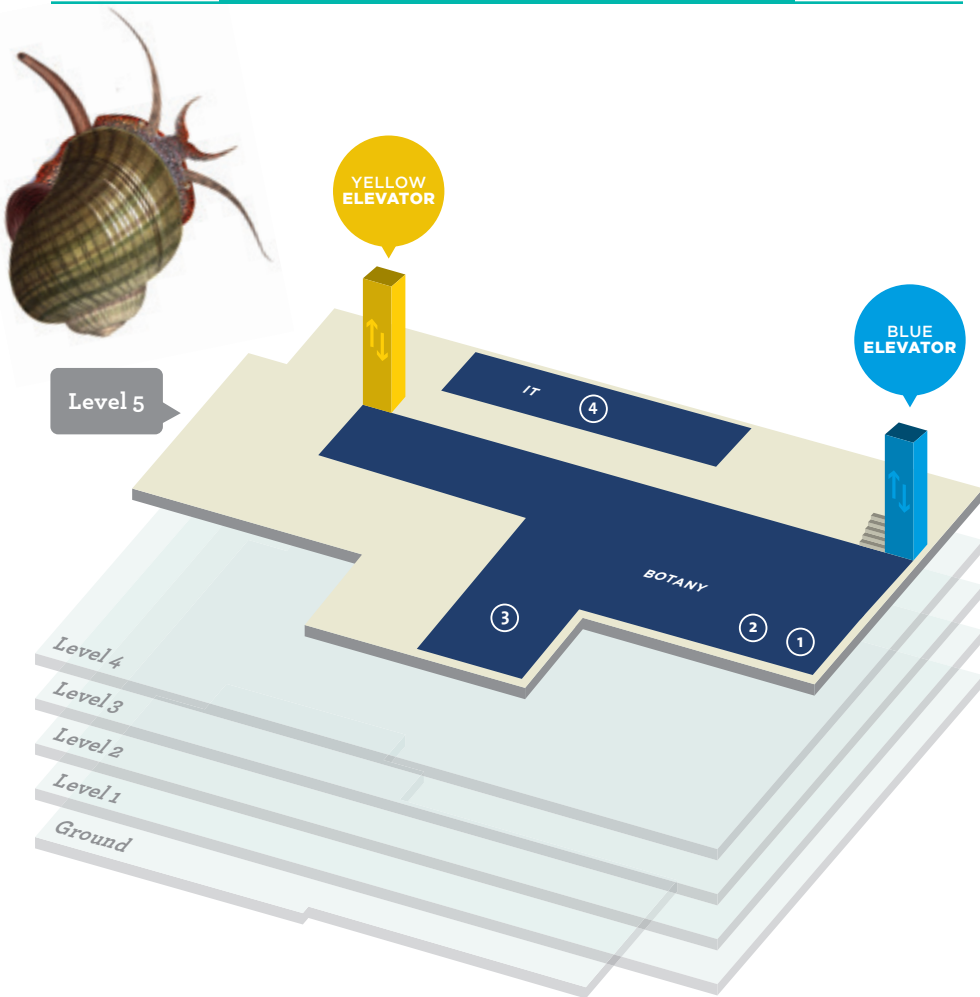
We'll be dissecting Channeled Whelk Snails from New Jersey and showing you the details up close.

## 8 Mollusks 101

Learn how these amazing creatures grow, live, and more!



## Level 5



### 1 Amazing Rainbow Algae

Did you know that algae is used in ice cream and candy? Try your hand at experimenting with algae extracts and watch them create colorful rainbows.

### 2 Meet Our BEES Students

Learn from the Botany Department students about their latest research and findings.

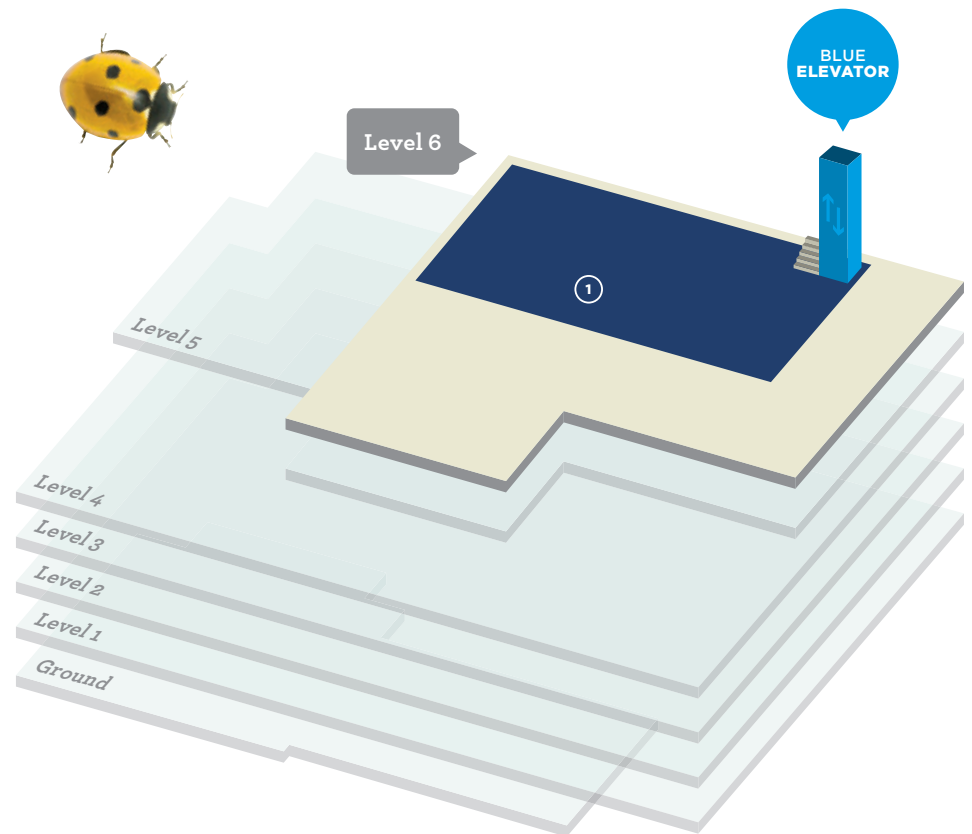
### 3 Make Your Own Herbarium!

Learn how 1.2 million specimens in the Academy's herbarium are cared for, and prepare your own herbarium to take home.

### 4 The Evolution of Computer Operating Systems

Experience multiple generations of technology and see how scientists have communicated their research on the natural world.

## Level 6



### 1 Pennsylvania Plants Go Digital!

See how different organizations work together, and find out how you can become a citizen scientist.







## Vote for your favorite activity!

Write the name of the activity and the department below. Place your ballot in the box in the main lobby. We'll announce the winner in the next member email!

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Activity Title

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Department

@AcadNatSci | #ANSMembersNight



# MEMBERS' NIGHT

Friday, September 30, 2016

Connect with us online!

@AcadNatSci

#ANSMembersNight

#dinodelphia



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**FOUNDED IN 1812**, the Academy of Natural Sciences of Drexel University is a leading natural history museum dedicated to advancing research, education, and public engagement in biodiversity and environmental science.

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THE ACADEMY  
OF NATURAL SCIENCES  
of DREXEL UNIVERSITY

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