

## Bee Hunt Segment

12:30 – 1 p.m.

### [Host: Tamberly]

- Welcome back to PollinatorLIVE.
- Continue our Distance Learning Adventure by learning what you can do to contribute data and record your observations. Can help scientists their research!
- Lots of “citizen science” projects.
- Dr. John Pickering here today to talk about his projects. Dr. Pickering an ecology professor at U. of Georgia.
- How did you get interested in science?

### [Pick:]

- As a boy, pestered parents, teachers, anyone with questions.
- Was annoying.
- Wasn't interested in answers. Was interested in what not known.
- Finding out what was not known that was exciting.

### [Host: Tamberly]

- What trying to find out now, as a scientist?

### [Pick:]

- Looking at big patterns, big changes of where species are, where migrating, where disappearing or displaced. When started, no technology to analyze info, so I made a computer program. Called Discover Life.

### [Host: Tamberly]

- Let's have a look. What web address Discover Life, and how does it work?

### [Pick:]

- At [www.discoverlife.org](http://www.discoverlife.org). Here's homepage [No. 1 from ppt]
- Brings together several different functions.
- Can search for species. Have an image of homepage with search function highlighted. [No. 2 from ppt -- Discover Life home page with search box highlighted]
- Can link to Nature Guides, map, and photo album. Can show you that page. [No. 3 from ppt -- Discover Life home page w/ main links (IDnature guides, Map, Albums)]
- Can store photos and lots of other information.
- For ex., photo caterpillar. Can enter name of caterpillar & name of the plant it was eating.
- Photos links to a map. Will take you right back to your photograph.

### [Tamberly]

- That's cool!

### [Pick]

- Faster than Google Earth. Can include thousands of locations for each species.
- Have map of long horned bee. [Global Mapper page for long horned bee – No. 5 of ppt]

### [Tamberly]

- What else does Discover Life do?

### [Pick]

- Each species, have photos and info.
- Links to other sites.

### [Tamberly]

- Anything else?

**[Pick]**

- Online field guides to hundred of different groups. In development. Working with scientific partners to help people identify things easiest way possible. Here is ID nature guide for tree id. **[IDnature guides page for tree identification – No. 6 from ppt]**
- So we have guides to trees, wildflowers, ferns, mushrooms, bees, ladybugs, caterpillars, butterflies, fish, salamanders, lichens, etc.
- Answer as many questions as you can.
- Can create album. Here is example of album for John Ascher, bee expert at American Museum. **[Album page - (John Ascher, bee expert, American Museum) – No. 4 from ppt]**

**[Tamberly]**

- What are ways students can use website, especially for studying bees?

**[Pick]**

- Invite students to find out things for themselves.
- Want to give students opportunity to ask and answer own questions.
- I don't know what wildflowers are blooming in your area in mid-May and what insects are pollinating them. You tell me!

**[Tamberly]**

- So how do we do that?

**[Pick]**

- Here is a short video. Let's take a look.

**[Roll Bee Hunt video]**

**[Tamberly]**

That looks like fun.

**[Pick]**

- Lots of fun.
- Like being on a safari, very small scale.

**[Tamberly]**

- Have some students going out on a Bee Hunt right now. What are your names and what are you going to do?

**[Students]**

- I'm \_\_\_\_\_ and this is \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. Have a camera. Going to look for insects. There is a butterfly garden here at zoo> Might be a good place. **[BEE GOES WITH THE STUDENTS.]**

**[Tamberly]**

- Great. Will report back at the end of the webcast about 2:15. So stay tuned so we'll check out what students found.

**[Pick]**

- Once you start looking, you find lots of things happening.
- Often don't see it because we're not looking.
- Once you get camera and zoom in, you'll tune in to all the activity.
- Example, here's a photo I took in a goldenrod field. **(use photo on our home page, the one of the bee)**
- Goldenrods are great for studying pollinators because . . .

- This photo has a lot going on in it, but I didn't even see half of it until I got home and looked closer at it. How many species do you see?

**[Tamberly]**

- Goldenrod and the bee. Yellow thing camouflaged but it looks like a spider.

**[Pick]**

- Right, crab spider . Don't see that right away. Eating the bee.

**[Tamberly]**

- Tiny flies doing on bee's wings?

**[Pick]**

- I didn't know. Asked friend who an expert. This is like a safari.

**[Tamberly]**

- What's dark red insect?

**[Pick]**

- Wasp running away to find a better spot to look for pollen and nectar. Also a little aphid, innocent bystander. Huge cast of characters; high drama. You just need to zoom in to see it.

**[Tamberly]**

I understand we have some other interesting images to examine.

**[Pick]**

- Wheel bug nails bee [\[show image from web site\]](#)
- Two bugs on bee [\[show image from web site\]](#)

**[Tamberly]**

So what would you say is the most important thing to help pollinators?

**[Pick]**

- Grow a garden. Not just for the pollinators all insects.
- Tomato hornworm with parasitoid wasp cocoons [\[show image from web site\]](#)
- Catalpa worm with parasitoid wasps [\[show image from web site\]](#)

**[Tamberly]**

- Very interesting. Hope you can go to Discover Life & contribute images and info.
- Let's take some questions now. Send to e-mail address on the screen.

[\[pwninfo@aol.com\]](mailto:pwninfo@aol.com)

**[Questions and Answers]**

**[Host: Tamberly]**

- Okay, thanks for questions. Thank you Dr. Pickering.
- Continue to send in questions to e-mail address on the screen.
- Will answer later in program. [\[pwninfo@aol.com\]](mailto:pwninfo@aol.com)
- Also, teachers, go to web address on the screen.
- Feedback is important to us. Have an online evaluation.
- If fill out the evaluation, will receive a poster and plant a milkweed plant at a school
- Also will enter your name to win great prizes from the FS.
- 10 teachers will be selected for pollinator and Woodsy Owl & Smokey Bear materials.
- Stay with us. Back in 15 minutes to get an update on monarch butterflies from Dr. Chip Taylor, director of Monarch Watch.
- Many classes raise monarch butterflies and have Monarch Waystations, so send in your questions.
- See you in 15 minutes!