



# Phaëton

The Official Newsletter of the  
Maryland Entomological Society

Volume 39, Number 7

April 2019

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## April Meeting Announcement

The Maryland Entomological Society's 328<sup>th</sup> regular meeting will be held **Friday, 26 April 2019, at 8:00 p.m., in Room 004** (one floor below the street level), **Biological Sciences Building**, University of Maryland Baltimore County (UMBC). Bring a friend and specimens, observations, and books to share. Refreshments will be provided. Presentations are scheduled to begin at 8:15 p.m.

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**Speaker: Roseanne Radavich, MS, BCE - Army Public Health Center**  
**Title: "Entomology Education for Visually Impaired Students"**

**Abstract.** We use science to understand the world around us, which makes it an essential part of every student's education. However, there was a documented lack of science educational material for visually impaired students in 2004 when Ms. Radavich started her M.S. work. She developed and taught entomology lessons at the Indiana School for the Blind to help address this gap. She will talk about how she designed her lessons, discuss the notable differences she found while working with visually impaired students, admit to her failures (we call them "learning experiences"), and give tips and tricks to create successful science education curricula. Rosanne Radavich earned a Bachelor of Science degree from Purdue University in 2002 with concentration in field crop entomology in corn and soybeans. She went on to complete a Master of Science degree at Purdue University in 2006, where she addressed a critical shortage of science education for visually impaired students, and designed and taught entomology curricula for the Indiana School for the Blind.

Upon graduation, she joined the US Army as a medical entomologist and served on active duty for seven years and in the US Army Reserve for three additional years. While on active duty, her assignments included second-in-command of a preventive medicine detachment (including a year-long deployment to Iraq); medical entomologist and Chief of the Health Risk Management Division; and Research Liaison Officer and Deputy Chief of Research for the Armed Forces Pest Management Board. Upon transitioning to the US Army Reserve, she served a General's aide-de-camp at the 807th Medical Command, Salt Lake City, UT, and as a Chemical, Biological, Radiological, and Nuclear (CBRN) Medical Support Officer and sole entomologist for the Consequence Management Unit in Abingdon, MD. She was a Captain upon leaving the Army.

Rosanne Radavich currently works as a medical entomologist for the Army Public Health Center, where she routinely provides entomology consultation and training for Soldiers across the Army. She currently maintains 20 common stored-product pests in colony and teaches a stored-product pest management workshop for military food inspectors and entomologists.

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### Meet for Dinner before the Lectures

If you are interested in meeting for dinner before the lectures, you are invited to join the guest speaker and your fellow MES members at the [Chef Paolino Café](#) located at **726 Frederick Rd, Catonsville, MD 21228**. If you plan to go to dinner, please email [Fred Paras at bugandrockman@msn.com](mailto:Fred.Paras@bugandrockman.com) by noon on the day of the lecture. Fred will make a reservation for the group. Please meet at the restaurant promptly at **6:00 p.m.**

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**\*\*\*DON'T FORGET TO RENEW\*\*\***

**\*\*\*IT'S MEMBERSHIP RENEWAL TIME\*\*\***

**OCT 2018 – SEP 2019 MEMBERSHIP YEAR**

Membership renewal forms were inserted in the front of the September 2018 issue of *The Maryland Entomologist*. If the date on your address label reads 2018, it is time for you to renew for the "October 2018 – September 2019" membership year. Please check that your contact information is correct and return the form along with your check (made out to Maryland Entomological Society) to: **Edgar A. Cohen, Jr.** (MES Treasurer), 5454 Marsh Hawk Way, Columbia, MD 21045

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**WELCOME TO NEW MEMBERS**

MES welcomes the following new members to the Society:

Kevin Heffernan – Ellicott City, MD  
Linda Hunt – Columbia, MD

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**MINUTES OF THE 327TH MEETING OF THE  
MARYLAND ENTOMOLOGICAL SOCIETY**

The meeting commenced at 8:20 PM with a welcome by President Fred Paras. An abstract of the lecture and the speaker biographies appear in the March 2019 issue of the *Phaëton*. Fourteen members and one guest were in attendance. The lecture ended at 10:10 PM. After refreshments and socializing, a brief business meeting commenced at 10:55 PM. Seven members stayed for the business meeting.

Treasurer's report: Ed Cohen reported a balance of \$4,971.64.

Old business: There was none to discuss.

New business: At the Maryland Collegiate STEM Conference to be held on April 27, President Fred Paras and Vice-President Phil Kean will display butterflies and beetles.

At 11:15 PM, Vice-President Phil Kean motioned to adjourn; Faculty sponsor Dr. Frank Hanson seconded the motion.

**15 MARCH 2019 MES LECTURE**

**Speakers: Linda Hunt and Kevin Heffernan**

**Title: Butterflies of Howard County, Maryland**

Dick Smith, Linda Hunt, and Kevin Heffernan had been active in butterfly observation for many years, and Linda and Kevin continued the butterfly survey Dick had initiated in 2013 after Dick died suddenly in August, 2018. Dick had created a biological summary and checklist in chart form of "The Butterflies of Howard County, Maryland" in May, 1993. It was printed by the Howard County Chapter of the Maryland Ornithological Society (also identified as the Howard County Bird Club), and has been revised several times since then. Linda Hunt compiled a color brochure "Backyard Butterflies", also printed by the Howard County Bird Club. In 2018, Kevin

Heffernan compiled the "Similar Butterfly ID Cheat Sheet", a color brochure displaying photographs and ID tips of similarly appearing species, i.e. Monarch vs Viceroy.

Co-presenter Linda Hunt led off with an overview of the increased interest in lepidoptery on the part of the general public and Howard County nature enthusiasts. In 2011, the Howard County Bird Club added butterfly photos to its web site, and included species not often seen or not seen in years, in addition to those regularly observed. Concurrently, there was an increased interest in and awareness of the problems afflicting bee populations; and cell phone photography came into greater use, enabling observers to record difficult to identify individuals.

In 2012, we experienced a very early spring and an unusually hot summer. Four species new to Howard County were identified: the Silvery Checkerspot, the Broad-winged Skipper, the Northern Oak Hairstreak, and the Southern Broken-Dash Skipper. In 2014, Linda Hunt and Dick Smith of MES co-coordinated the butterfly survey. They discussed problems with data collection and questioned the population dynamics: "Are populations changing OR are there more field observers, resulting in greater numbers of species and of individuals within species being identified?"

Co-presenter Kevin Heffernan displayed numerous slides of population data. He stated that Cabbage White and Sachem numbers accounted for greater than one-third of the total butterfly numbers seen, and that more than half of the butterflies reported were from five species. He showed graphs and charts of species numbers and individual numbers versus rainfall amounts. Kevin is an accomplished photographer, and shot many of the photos displayed in the presentation and on the Howard County Bird Club web site.

Both presenters discussed the fact that data may be somewhat skewed by observers' inability to identify some individual species, and hence the sighting was not reported. They discussed the adverse effects of development and herbicide use in Howard County, particularly in the small area of coastal plain habitat on the Anne Arundel County border, and of farm meadow habitat in the western county. It was also noted that parks, private gardens, farms, and utility rights of way provide good habitat. Local surveys are useful for conservation planning; In Howard County most Monarchs appear during fall migration and need nectar plants.

The Survey objectives and activities were:

- To survey and document species and numbers of butterflies every two weeks at as many Howard County (HOCO) locations as possible.
- To determine the occurrence level and risk status for each species based on single/multiple locations and environmental factors.
- To determine the flight times (brood cycles) of each species and yearly variation.

- To develop opportunities for people to see and learn about butterflies.

The speakers listed possible post-survey activities as:

- Improving skipper identification.
- Develop the ability to identify all life cycles and host plants for all life cycles.
- Expand the number of known locations for species of conservation concern.
- Create a rare butterfly alert system.
- Coordinate with parks and utility groups on mowing and herbicide spray schedules.
- Encourage planting of more butterfly gardens and meadows.
- Encourage public interest in butterflies through walks, searches and surveys, and presentations.

The Butterfly Survey was co-sponsored by the Howard County Bird Club and the Howard County Department of Recreation and Parks, and originated by the late Richard H. Smith, and by Jo Solem, and Sue Muller.

*Respectfully submitted, Janet Lydon, MES Secretary*

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### ENTOMOLOGICAL SOCIETY OF WASHINGTON PUBLIC MEETING

**Thu, 2 May 2019; 7:00 p.m.**

Topic: TBA

Speaker: TBA

National Museum of Natural History, Smithsonian Institution, Washington, DC

<http://entsocwash.org/>.

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**Central Maryland Beekeepers Association**

*Supporting and promoting beekeepers and the viability of honeybees in central Maryland*

### MEMBERS MEETINGS

**Tue, 7 May 2019; 7:00 p.m.**

**Bill Castro** speaks about foundationless frames, swarms, and organic beekeeping.

Members meetings are held at the Oregon Ridge Nature Center, 13555 Beaver Dam Road, Cockeysville, Maryland.

Additional information can be found at:

<http://www.centralmarylandbees.org/meetings-3/membership-meeting-schedule/>

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### UNIVERSITY OF MARYLAND DEPARTMENT OF ENTOMOLOGY COLLOQUIA

**Fri, 26 April 2019, 12:00 p.m.**

“Evaluating the effect of potato leafhopper (*Empoasca fabae*) feeding on biological nitrogen fixation in alfalfa (*Medicago sativa*)”

Morgan Thompson (Lamp Lab, Department of Entomology, University of Maryland)

**Fri, 3 May 2019, 12:00 p.m.**

“TBD”

Elske Tielens (Gruner Lab, Department of Entomology, University of Maryland)

**Fri, 10 May 2019, 12:00 p.m.**

“New perspectives on the morphology and development of body segments in centipedes and other myriapods”

Jeffrey Shultz (Associate Professor, Department of Entomology, University of Maryland)

Entomology colloquia take place in 1130 Plant Sciences Building, College Park, MD. For additional information, go to: <http://entomology.umd.edu/calendar.html>.

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### 2019 ALL BUGS GOOD AND BAD WEBINAR SERIES

This webinar series discusses troublesome insects such as invasive ants, landscape, vegetable and household pests, as well as beneficial insects such as native pollinators. Webinars are held on the first Friday of every month at 2PM EST.

**Fri, 3 May 2019; 2:00 p.m.**

Topic: Ins and Outs of Termite Treatments

Speaker: Wizzie Brown, Texas A&M Agrilife Extension

**Fri, 7 June 2019; 2:00 p.m.**

Topic: Batty for Bats!

Speaker: Janet Hurley, Texas A&M Agrilife Extension

Information about upcoming webinars and archives of previous recordings can be found at

<https://articles.extension.org/pages/74786/2019-all-bugs-good-and-bad-webinar-series>

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### BALTIMORE CITY NATURE CHALLENGE: BIOBLITZ AT HERRING RUN PARK

**Sat, 27 April 2019**

Join National Park Ranger, Bill Curtis at Herring Run Park on Saturday morning for a walk around the park in search of species to document for the Baltimore City Nature Challenge (<http://citynaturechallenge.org/>)!

The City Nature Challenge encourages people to discover and document the biodiversity of our urban spaces. What started as a friendly competition in 2016 between San Francisco and Los Angeles has now grown into a global event touching down in cities across the world!

It is easy to participate using the iNaturalist app (free on the app store). Just take a picture of a plant, animal, or pretty much anything in nature and upload it to the app. Citizen scientists around the world will help label your observations. Why participate?

By participating in the CNC, not only do you learn more about your local nature, but you can also make your city a better place—for you and other species! In Baltimore, our 2018 CNC research-grade data was been used in the Global Biodiversity Information Facility and in the Greater Baltimore Wilderness Coalition's Baltimore Biodiversity Toolkit.

BRING: Water, sunscreen, and snacks. Please come prepared with your phone and with the iNaturalist app downloaded and ready to go!

Space is limited, so learn more and RSVP [here!](#)

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### UMD ENTOMOLOGY'S INSECT ZOO

**Check out Entomology's Insect Zoo and Discover the Swamp exhibits at Maryland Day on Saturday, April 27, 2018!**

Discover a Swamp – Room 1162, Plant Sciences Building, all day

Capture and observe the small aquatic creatures that are common in nearby wetlands. Learn about their behavior as they swim through water and climb on plants

Insect Petting Zoo – Room 1161, Plant Sciences Building, 10 a.m. - 3 p.m.

Imagine tarantulas, exotic insects, scorpions, bees and millipedes longer than your hand for you to look at and touch—if you dare.

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### NEW ENTOMOLOGY BOOK

*Field Guide to the Flower Flies of Northeastern North America*

Andrew D. Young, Kevin Moran, William J. Crins, and Stephen A. Marshall

Princeton University Press

Paperback, 512 pp., 5 x 8¼, Flexibound, 3,000 color plates, 414 maps, forthcoming May 2019, \$27.95

<https://press.princeton.edu/titles/14224.html>

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### 2018/2019 PROPOSED MES EVENT SCHEDULE

Regular MES lecture/meetings are held at the University of Maryland Baltimore County (UMBC) on the 3<sup>rd</sup> Friday of each of 6 months coinciding with UMBC's academic year.

Proposed events for the upcoming MES membership year are:

Sep 30: Potluck Picnic

Oct 19: Dr. Mike Turrell

Nov 16: Frederick Paras

Feb 15: Patricia Nichols

Mar 15: Linda Hunt & Kevin Hefferman

Apr 19: Mike Blackburn, USDA

May 17: Members' & Students' Presentations & Elections

TBD Survey/Field Trip

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### OCT 2018-SEP 2019 MES MEMBERSHIP YEAR

#### OFFICERS

|                      |                                   |
|----------------------|-----------------------------------|
| President            | Frederick Paras                   |
| Vice President       | Philip J. Kean                    |
| Secretary            | Janet A. Lydon                    |
| Treasurer            | Edgar A. Cohen, Jr.               |
| Historian            | (vacant)                          |
| Faculty Sponsors     | Frank E. Hanson & Austin P. Platt |
| Journal Editor       | Eugene J. Scarpulla               |
| E-newsletter Editors | Aditi Dubey                       |

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#### SUBMITTAL DEADLINES

May 2019 issue of the *Phaëton*:

Please send member news items by 8<sup>th</sup> April 2019.

Send e-newsletter drafts to Addie at [aditid26@gmail.com](mailto:aditid26@gmail.com).

SEP 2019 issue of *The Maryland Entomologist*:

Please send first drafts of articles and notes ASAP.

Send drafts to Gene Scarpulla at [ejscarp@comcast.net](mailto:ejscarp@comcast.net).

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### I WANDERED LONELY AS A CLOUD

by *William Wordsworth*

I wandered lonely as a cloud  
That floats on high o'er vales and hills,  
When all at once I saw a crowd,  
A host, of golden daffodils;  
Beside the lake, beneath the trees,  
Fluttering and dancing in the breeze.

Continuous as the stars that shine  
And twinkle on the milky way,  
They stretched in never-ending line  
Along the margin of a bay:  
Ten thousand saw I at a glance,  
Tossing their heads in sprightly dance.

The waves beside them danced; but they  
Out-did the sparkling waves in glee:  
A poet could not but be gay,  
In such a jocund company:  
I gazed—and gazed—but little thought  
What wealth the show to me had brought:

For oft, when on my couch I lie  
In vacant or in pensive mood,  
They flash upon that inward eye  
Which is the bliss of solitude;  
And then my heart with pleasure fills,  
And dances with the daffodils.