Phaëton

The Official Newsletter of the
Maryland Entomological Society

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MARYLAND ENTOMOLOGICAL SOCIETY
OCTOBER 2021 MEETING

Title: Highlights from Nearly 20 Years of Chasing Tiger Beetles in Missouri
Speaker: Ted C. MacRae, Research Entomologist (retired)

Abstract: In 2000, Ted MacRae and his colleague, Chris Brown, began surveying tiger beetles in Missouri, with the goal of establishing a complete fauna and characterizing their temporal and spatial occurrence, habitat requirements, and conservation status. Their work resulted in the documentation of 24 species in the state, including two new state records, and identified eight species of potential conservation concern. Additional targeted surveys were conducted for five of these species using both active (visual observation) and passive (pitfall traps) collection methods. As a result of these surveys, four species were considered restricted but secure, two species were considered at high risk, one species was considered adventive, and one species was considered extirpated. Habitat management recommendations were developed for at-risk species and provided to state conservation agencies. This presentation provides an overview of the tiger beetles of Missouri with emphasis on species of conservation concern.

Speaker Bio: Ted is a recently retired research entomologist who spent the bulk of his 40-year career in the field of agricultural biotechnology. Despite the "applied" focus of his professional work, Ted has been fascinated with insect natural history since childhood. He has traveled extensively across the U.S. and many other countries and amassed an insect collection with more than 100,000 specimens. He has published numerous papers on beetles—primarily taxonomy, distribution, and host associations of woodboring beetles, and more recent work includes surveys to assess the conservation status of several Missouri tiger beetle species. Ted not only collects insects but also photographs them, with particular emphasis on field photographs of non-captive insects. Ted currently serves as Managing Editor for The Pan-Pacific Entomologist, Review Editor for The Coleopterists Bulletin, and Review/Layout Editor for Cicindela.

When: Friday, October 15th, 7:00 PM
Where: https://us02web.zoom.us/j/85045050707?pwd=d3VKbUN4WmxrK0sxU2lUWnNqUW9OQT09
Meeting ID: 850 4505 0707
Passcode: 276994
Dial in: +1 301 715 8592 US (Washington DC)

*****DON'T FORGET TO RENEW*****
*****IT'S MES MEMBERSHIP RENEWAL TIME****
OCT 2021 – SEP 2022 MEMBERSHIP YEAR

Membership renewal forms were inserted in the front of the September 2021 issue of The Maryland Entomologist that was mailed out in September. If the date on your address label reads 2021, it is time for you to renew for the "October 2021 – September 2022" 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. The renewal form can also be found here.

WELCOME TO NEW MEMBERS

MES welcomes the following new members to the Society:

Timothy A. Reichard – Odenton, Maryland

HONORING MEMBER DONORS

MES wishes to honor the following members who made charitable donations along with their recent membership renewals. These donations help with the printing and mailing of *The Maryland Entomologist*.

Joann L. Alexander
Benjamin L. Apt
Charles A. & Linda M. Davis
Mark C. & Emily Etheridge
David K. Faulkner
George A. Foster
Albert Greene
Kelly A. Hamby & Scott R. McCluen
Harold J. Harlan
Philip J. Kean
Sawyer Lai
Richard L. Orr
Frances B. Pope
Sue A. Ricciardi
Richard G. Robbins
Chris Sargent
Eugene J. Scarpulla & Marcia R. Watson
Robert P. & Joanne K. Solem
Robin G. Todd
David W. Webb
Elissa M. Weidaw
Harold B. White

PORT OF GULFPORT INTERCEPTS FIRST IN THE NATION INSECT IN PINEAPPLE SHIPMENT

Release Date: October 4, 2021

GULFPORT, Mississippi – U.S. Customs and Border Protection Agriculture Specialists discovered a butterfly larvae pest, informally known as the Saunders 1850, while inspecting a container of pineapples from Costa Rica.

Saunders 1850

The larva was discovered while conducting inspections at the Port of Gulfport on Wednesday, September 2. Due to the potential impact to US Agriculture, the shipment of pineapples, worth $15,000, was destroyed.
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The United States Department of Agriculture, Animal and Plant Health Inspection Service officially identified the larvae as *Ancyluris jurgensenii jurgensenii* (Saunders, 1850) (Riodinidae) a reportable and actionable pest as well as a first in the nation find. Larvae of the Riodinidae or Metalmark family have been known to feed on many plants i.e., pineapples, legumes, sunflowers, and ginger. Their typical habitat is Amazonian tropical rainforest. Their taxon name of Saunders 1850 comes from William Saunders, a British insurance broker, entomologist and botanist who died in 1879. "These butterflies, while they may be attractive to the eye, have no place in the Gulf Coast or United States and their introduction could lead to unpredictable results in ourecosystem," said Anthony Acrey, Area Port Director of Mobile. "This interception illustrates one of the many hats CBP wears and highlights the diligent work CBP agriculture specialists do on a daily basis to fulfill CBP's agriculture mission, which is vital in preventing foreign pests from establishing in the United States. Pests that are not known to occur in the U.S. may be detrimental to the nation's agriculture industry.

ENTOMOLOGICAL SOCIETY OF PENNSYLVANIA ANNUAL MEETING

The 2021 ESP Annual Meeting will be on Saturday, 20 November 2021 from 8am-3pm and will be virtual via Zoom. Our guest speaker will be entomologist and author Eric Eaton. He will be presenting material from his newest book, Wasps: The Astonishing Diversity of a Misunderstood Insect: Eaton, Eric R.: 9780691211428: Amazon.com: Books. You can register for the meeting by sending in the attached form or you can sign up electronically using the ESP website, 2021 ESP Annual Meeting (entsocpa.org). The schedule of speakers will be announced shortly. It's $5 to attend and $8 for 1 year of membership. If you are presenting, there is no cost.

Let me know if you have any questions and please, feel free to share this information with anyone that might be interested.

Thanks,
Mark Swartz, ESP President
markswartz@pa.gov

MY GARDEN OF A THOUSAND BEES

Premiering on Nature on PBS
October 20, 2021

Taking refuge from the coronavirus pandemic, wildlife filmmaker Martin Dohrn set out to record all the bees he could find in his tiny urban garden in Bristol, England, filming them with one-of-a-kind lenses he forged on his kitchen table. See his surprising discoveries in "My Garden of a Thousand Bees," premiering nationwide Wednesday, October 20, 2021, at 8 p.m. ET on PBS http://www.pbs.org/nature and the PBS Video app.

The documentary, which kicks off Nature's 40th season on PBS, follows Dohrn during the COVID-19 lockdown of spring and summer 2020, as he becomes bee obsessed and develops relationships with individual bees. Filming more than 60 species of bees, from Britain's largest bumblebees to scissor bees, which are the size of a mosquito, Dohrn observes how differences in behavior set different species apart from each other. Eventually, he gets so close to the bees, he can identify individuals just by looking at them.

Viewers will marvel at moments timely captured in "My Garden of a Thousand Bees," such as bees laying tiny eggs preparing for the next generation, green-fanged spiders feasting on male flower bees and a female yellow-faced bee attacking a Gasteruption wasp to protect her nest. Other fascinating behavior featured in the program includes two male bees fighting each other over a female, different species of bees competing over territory and one busy bee building a nest with a shell and hundreds of sticks. Intrigued by the intelligence of one particular wood-carving leafcutter bee, Dohrn dubs her "Nicky" and sees life at her level as she leaves a lasting legacy in the garden.

DEPARTMENT OF ENTOMOLOGY

DEPARTMENT OF ENTOMOLOGY COLLOQUIA

Fri, October 15th, 2021, 12:00 p.m.
Characterizing the Plasmodium sporozoite development in Anopheles mosquitoes
Dr. Haikel Bogale, Post Doc Fellow, Institute for Genome Sciences, University of Mary School of Medicine

Fri, October 22nd, 2021, 12:00 p.m.
Insect evolution: insights into dragonflies and termites
Dr. Jessica Ware, Assistant Curator, Odonata & non-Holometabolous Minor Orders Principal Investigator, Sackler Institute for Comparative Genomics Assistant Professor, Richard Gilder Graduate School

Fri, November 5th, 2021, 12:00 p.m.
TBA
Dr. Čebelarska Zveza Slovenija, Vice President of Apimondia, and Director, Carniolan Bee Breeding Program

Fri, November 12th, 2021, 12:00 p.m.
Pollination ecology along a continuum: generalist plant-pollinator interactions in context
Dr.Jeff Ollerton, Landscape and Biodiversity Research Group, University of Northhampton

Entomology colloquia can be accessed through this zoom link: https://umd.zoom.us/j/92931371256

For additional information, go to: http://entomology.umd.edu/seminar-schedule.html

BeeCon

BEECON 2021!! VIRTUAL CONFERENCE

The Centre for Bee Ecology, Evolution and Conservation (BEEc) at York University, Toronto, Ontario, invites researchers, students and interested members of the public to a two-day virtual conference – BeeCon 2021!!

Historically, BeeCon was an opportunity for southern Ontario bee researchers to connect and share their findings with their peers. The shift to a virtual platform in 2020, allowed us to connect with close to 300 bee researchers from 18 countries! **BeeCon 2021 is scheduled for Friday, October 15 (all day) AND Saturday, October 16 (1/2 day), 2021.**

BeeCon 2021 will feature keynote presentation titled "Plant-pollinator Interactions & Ecosystem Services in the Face of Global Change" presented by Dr. Shalene Jha, Associate Professor in the Department of Integrative Biology at the University of Texas, Austin.

BeeCon 2021 will be a virtual event, completely free for all participants! Support for this event is provided by York University's VPRI, Faculty of Environmental and Urban Change, & Faculty of Science.

As with last year, this year's event will be virtual and we are excited to take this opportunity to connect with a broader group of local and international bee researchers! Up-to-date information, a link to register, and a preliminary schedule can all be found at https://www.yorku.ca/bees/beecon-2021/.

2022 VIRTUAL ADVANCES LANDSCAPE IPM PHC SHORT COURSE

Description
The annual Advanced Landscape IPM PHC Short Course is a recertification short course for arborists, landscapers, IPM consultants, horticulturalists, professional gardeners, and others responsible for urban plant management. The course lectures will be VIRTUAL (online) this year. In addition, there will be an in-person hands-on lab held over two days (available to a limited number of course attendees).

Location
This is a VIRTUAL (online) short course offered by the Department of Entomology, University of Maryland. Attendees must have a computer with video and audio capabilities in order to participate.

Date/Time
This is one course, so you can NOT register for individual days. Re-certification credits are based on attendance all six days. This course will take place in 3 hour segments over 6 days (3 days week 1 and 3 days week 2).

Lecture dates: Tuesday, Wednesday, and Thursday; January 4, 5 and 6 AND January 11, 12, and 13, 2022
Location: Virtual via Zoom
Lecture times: 7:45 am – 11:30 am Eastern Standard Time

2 day in-person lab (only open to course attendees; limit of 26 people)
Lab dates: Tuesday and Wednesday January 18 and 19
Location: In person at University of Maryland Campus, College Park, MD
Lab times: 8:00AM - 3:00PM

Note: The lab sessions may be cancelled (and refundable) depending on the COVID situation and UMD regulations; All visitors on campus are expected to abide by the UMD campus health and safety guidelines, including wearing a mask or face covering in all indoor spaces.

Registration Fees
Registration opens Sept 27 and closes January 3, 2022

Lecture only fee: $525 fee includes access to online resources: course syllabus, fact sheets, presentation pdf's, sources for recommended information resources

Lecture and lab fee: $825 Fee includes the above listed lecture resources, hands-on lab specimens including live biological control agents and pests, use of microscopes, interactive activities with course instructors.

Find more information and register at https://landscapeipmphc.weebly.com/.

THE OHIO STATE UNIVERSITY

THE BEE SHORT COURSE FOR COMMUNITY SCIENTISTS

Join fellow bee fans for this free monthly webinar series. We'll explore the world of bees and learn together from bee experts to build skills as community scientists. Whether you're a seasoned wild bee volunteer or just beginning your bee journey, the skills learned in this series will prepare you to help our threatened pollinators.

All sessions are from 10 - 11:00AM EST on the third Friday of the month, May - November 2021

October 15: Mary Gardiner, The Ohio State University
"Contributions of Community Science to Entomology: Benefits for People and Nature"

November 19: Molly Martin, Bee City USA/Xerces Society
"From Community Science to Advocacy in Action: Case Studies in Conservation"

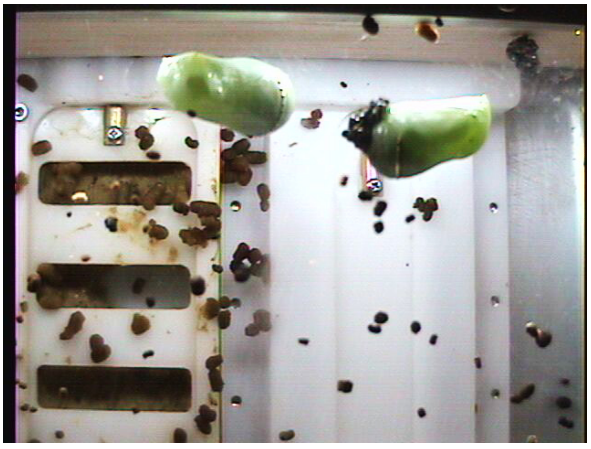
This is a collaborative effort from: OSU Department of Entomology, The Chadwick Arboretum and Learning Gardens, and The US National Native Bee Monitoring Research Coordination Network (RCN).

Find more information and register here.

NATURAL HISTORY SOCIETY of Maryland

BUTTERFLIES IN SPACE

When: Wednesday, October 27th, 2021, 7 – 8 PM on Zoom
Can butterflies metamorphose in space? In 2009, the Butterflies in Space project launched Painted Lady and Monarch butterflies into space where they landed at the International Space Station. Ms. Stefanie Countryman is the Director of BioServe Space Technologies and a Research



Associate within the Ann and HJ Smead Aerospace Engineering and Sciences Department at the University of Colorado Boulder will discuss the process and technical challenges that needed to be overcome in order to successfully complete the experiment in orbit as well as the outcomes.

NOTE: This Butterflies in Space project was part of BioServe's CSI K-12 educational program that provided educational materials and classroom kits designed to represent as closely as possible the space flight hardware. The students were able to compare results in their classrooms to results occurring in orbit in near-real time.

Ms. Countryman has worked for BioServe for over 20 years. She has been involved in or directly responsible for the development and/or management of over 70 different space life science experiments including the Butterflies in Space K-12 educational project. As such, she is intimately familiar with the process for developing, launching and operating life science experiments in space as well as the development of the supporting space flight hardware.

BioServe Space Technologies is a Center within the Ann and HJ Smead Aerospace Engineering Sciences department at the University of Colorado Boulder. Since its inception in 1987, BioServe has designed, built, and flown hundreds of microgravity life science research experiments and hardware on 80 spaceflight missions.

Find more information and register here.

Howard County Conservancy
connecting people to nature

NIGHTMARE IN THE VINEYARD: MISCHIEF BY THE SPOTTED LANTERNFLY

When: Thursday, October 21st, 2021, 10 AM – 12 PM (virtual)
Speaker: Dr. Mike Raupp, Professor Emeritus, Department of Entomology, University of Maryland

In the never-ending stream of invasive species arriving in our land, the Spotted Lanternfly is on the move in Maryland and throughout the eastern United States. In this virtual (zoom) program, we will learn how the Spotted Lanternfly arrived in the US, how it spreads, where it is found, and its threats to crops, gardens, and landscapes. We will discuss the biology and ecology of spotted lanternfly and discover how Mother Nature is pushing back on this alien invader. Discover what you can do to stop the spread of the Spotted Lanternfly and how you can put a beat-down on this pest in your landscape.

Find more information and register here.

2021/2022 PROPOSED MES EVENT SCHEDULE

Due to the COVID-19 pandemic, regular MES lecture/meetings are currently being held virtually on Zoom at 7:00 p.m. on the 3rd Friday of each of 6 months coinciding with UMBC's academic year. Proposed events for the current MES membership year are:

Date	Speaker	Topic
Oct 15	TBA	Highlights from Nearly 20 Years of Chasing Tiger Beetles in Missouri
Nov 19	Ian Emanuel	Insect interactions with Jack-in-the-pulpit plants
Feb 18	TBA	TBA
Mar 18	TBA	TBA
Apr 15	TBA	TBA
May 22	Members Presentations	

OCT 2021-SEP 2022 MES MEMBERSHIP YEAR OFFICERS

President	Frederick Paras
Vice President	(vacant)
Secretary	Janet A. Lydon
Treasurer	Edgar A. Cohen, Jr.
Historian	(vacant)
Faculty Sponsor	Frank E. Hanson
Journal Editor	Eugene J. Scarpulla
E-newsletter Editor	Aditi Dubey

SUBMITTAL DEADLINES

November 2021 issue of the ***Phaëton***:
Please send member news items by Sunday 14th November 2021.
Send e-newsletter drafts to Addie at aditid26@gmail.com.

September 2022 issue of *The Maryland Entomologist*:
Please send first drafts of articles and notes by 1 April 2022.
Send drafts to Gene Scarpulla at ejscarp@comcast.net.

MANTIS
by Ella Duffy

She stills herself,
a green meditation,
angled with desire
for aphid, moth.

Icon, on guard,
she is threat posed
as prophet. A body
of tricks, mischief

made leaf, flowering
to thorn; a small
violence. Trauma
is feast.

Mantis, wild queen,
her face is geometry
at play; a compass
for the dead.