

THE COLEOPTERISTS SOCIETY



AN INTERNATIONAL SOCIETY
DEVOTED TO THE STUDY OF BEETLES



2020 (Virtual) Annual General Meeting

December 4th, 2020

Registration (free!):

<https://www.eventbrite.com/e/2020-annual-meeting-coleopterists-society-tickets-129626043987>



Oryctomorphus bimaculatus (Scarabaeidae) from Pangal, Los Lagos, Chile

A Special Thank You to BioQuip Customers

BioQuip would like to show our thanks to our customers.

Double Free Shipping Offer (save now and next year)

Offer is valid for orders placed by 12/31/2020. You will receive a coupon for the same offer that can be used for another order placed by 3/31/2021.

Offer Details:

Place an order for \$50.00 or more and receive FREE SHIPPING (as detailed below).

The offer is valid for standard ground shipping to U.S. destinations only.

The following applies to Motor Freight shipments:

Only the actual **freight charge** is deducted from your invoice.

Additional charges on Motor Freight shipments may include: limited access, school delivery, metro, inside delivery, lift gate service, delivery appointments or delivery notification. You will be invoiced for the additional charges.

You **MUST** type the following promo code in the Notes section on your order to receive free shipping

[BQ2020](#) *us longimanus*

FREE Gift with Order Offer

Offer is valid for orders placed by 12/31/2020, only one gift per order.

Place a merchandise order for:

- \$30.00: Receive an Official BioQuip pen
- \$50.00: Receive an Official BioQuip folding magnifier, 3 lens, 15x total
- \$75.00: Receive an Official BioQuip pocket datebook
- \$100.00: **WOW** - Receive all of the above plus a free book, D'Abbrera, *Butterflies of South America*



www.bioquip.com www.bioquipinc.com www.bioquipbugs.com

Program (all times are in EST = Eastern Standard Time in North America)

12:00–12:10 PM EST – **Welcome and introduction**

Andrew Smith

Canadian Museum of Nature; asmith@nature.ca

President of The Coleopterists Society

12:10–12:30 PM EST – **Unraveling the diversity of Helopinina Latreille (Coleoptera: Tenebrionidae): an illustrated catalogue of the subtribe and initial taxonomic revision**

Marcin Kaminski and Ryan Lumen

Department of Entomology, Purdue University; kaminskientomo@gmail.com,
rplumen@gmail.com

Winners of the 2020 Bell Research Award and 2020 Edwards Prize (Lumen)

12:30–12:45 PM EST – **Higher-level phylogeny and reclassification of Lampyridae (Coleoptera)**

Gavin Martin

School of Math and Sciences, Laramie County Community College;
gavin.jon.martin@gmail.com

Winner of the 2020 Lacordaire Prize

12:45–1:00 PM EST – **How range overlap and environmental variation influence the gut microbiomes of *Phanaeus vindex* and *P. difformis* (Coleoptera: Scarabaeidae) dung beetles**

Claire Winfrey

Department of Ecology & Evolutionary Biology, University of Colorado Boulder;
Claire.Winfrey@colorado.edu

Winner of the 2019 Graduate Student Research Enhancement Award

1:00–1:15 PM EST – **Comparative phylogeny of passion vine specialist flea beetles (Coleoptera: Chrysomelidae)**

Colin Morrison

Department of Integrative Biology, The University of Texas at Austin;
crmorrison@utexas.edu

Winner of the 2020 Graduate Student Research Enhancement Award

1:15–1:30 PM EST – **Molecular phylogenetics and biogeography of Appalachian *Anillinus* (Coleoptera: Carabidae: Anillini)**

Curt Harden

Department of Plant & Environmental Sciences, Clemson University;
c_har@fastmail.com

Winner of the 2020 Graduate Student Research Enhancement Award

1:30–1:45 PM EST – **Break**

1:45–2:00 PM EST – **The evolution and mechanisms of carabid beetle (Coleoptera: Carabidae) chemical defense**

Adam Rork

Department of Entomology, The Pennsylvania State University; amr483@psu.edu

Winner of the 2020 Graduate Student Research Program Award

2:00–2:15 PM EST – **Phylogeny of the largely tropical cerambycid genus *Anoplophora* Hope (Coleoptera: Cerambycidae) and the origins of life in the cold**

Sang Il Kim

Department of Organismic and Evolutionary Biology, Harvard University;
sikim@g.harvard.edu

Winner of the 2020 Graduate Student Research Program Award

2:15–2:30 PM EST – **Diversity and evolutionary history of *Ateuchus*, a clade of New World dung beetles (Coleoptera: Scarabaeidae: Scarabaeinae)**

Mario Cupello

Department of Zoology, Federal University of Paraná; mcupello@hotmail.com

Winner of the 2019 Edwards Prize

2:30–2:45 PM EST – **The Coleoptera anatomy ontology: a big step towards the semantic integration of morphological data**

Jennifer Girón

Department of Entomology, Purdue University; entiminae@gmail.com

Student Councilor (2019–2020) for The Coleopterists Society

2:45–3:00 PM EST – **Integration of morphology, genomics and biogeography resolves 257 years of unsettling taxonomy in the West Indian lycid genus *Thonalmus* (Coleoptera: Lycidae)**

Vinicius Ferreira

Montana Entomology Collection, Montana State University; vinicius.sfb@gmail.com

Student Councilor (2020–2021) for The Coleopterists Society

3:00–3:15 PM EST – **The Museum of Comparative Zoology entomology collection, a journey through early U.S. coleopterology**

Crystal Maier

Museum of Comparative Zoology, Harvard University; cmaier@fas.harvard.edu

President Elect (2019–2020) for The Coleopterists Society

3:15–3:25 PM EST – **USDA Mormon cricket non-target study**

Courtney Curtis

Arizona State University; cjcurti4@asu.edu

Winner of the 2020 Undergraduate Travel Award

3:25–3:35 PM EST – **Break**

3:35–4:25 PM EST – **Plenary speakers**

The Erwin Equation of biodiversity: remembering the "Beetle Man"

Carlos Garcia-Robledo

Department of Ecology and Evolutionary Biology, University of Connecticut;
carlos.garcia-robledo@uconn.edu

I was a Postdoctoral Fellow in the National Museum of Natural History - Smithsonian Institution, under the advice of the legendary Coleopterist Terry L. Erwin. Together with Terry, we performed research and taught courses on tropical biology in the Peruvian Amazon and Costa Rica. In this talk, we will celebrate some of the milestones in Terry's career. We will also discuss a project inspired in his classic paper "Tropical Forests: Their Richness in Coleoptera and Other Arthropod Species" (1982) published in *The Coleopterist Bulletin*. After many discussions with Terry Erwin, we present his verbal argument as an equation, the Erwin Equation of Biodiversity. In this presentation we illustrate how this original idea ignited an era of biodiversity discovery, and inspired subsequent diversity-ratio models aiming to estimate arthropod diversity.

Global insect richness and its decline

David Wagner

Department of Ecology and Evolutionary Biology, University of Connecticut;
david.wagner@uconn.edu

Stork's (2018) recent estimate of 5.5 million species of insects is significantly more conservative than Terry Erwin's back-of-the-envelope suggestion that there may be as many as 30 million terrestrial arthropods. I will share new thoughts and data about global insect richness, and where much of that diversity is hiding. Might Terry have been right, but for the wrong reasons? The earth's biodiversity is under siege from global anthropogenic stressors: deforestation, agriculture, urbanization, exotic species, and many others. I will provide a synopsis of recent findings relevant to global insect declines, emphasizing where data from studies of Coleoptera have shaped our understanding.

4:30–4:40 PM EST – **Break**

4:40–5:25 PM EST – **The Coleopterists Society 2020 business meeting**

Andrew Smith

Canadian Museum of Nature; asmith@nature.ca

President of The Coleopterists Society

5:25–6:00 PM EST – **Social mixer**