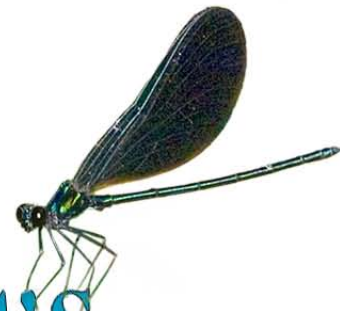




Smithsonian
National Museum of Natural History



EntNews

The Newsletter of the Department of Entomology

Vol. 24, no. 4/5, April/May 2009



Wil Herschberger



Jeff Lockwood



Karie Darrow, CJ Geraci and Jessica Ware - collecting odonata larvae



Epiptera cynosura (Corduliidae)

Cover Photo credits:

Wil Herschberger & Jeffrey Lockwood /from www;
Local collecting trip/Jerry Louton; dragonfly/Karie
Darrow.

ANNOUNCEMENTS:

The 1128th Regular Meeting of the **Entomological Society of Washington** convened at 7:00 pm on May 7, 2009 at the Cathy Kerby Seminar Room of the National Museum of Natural History. **Jeffrey Lockwood** of the University of Wyoming presented the topic “Green Imps of Satan: the Story of the Rocky Mountain Locust.” The following day, Jeffrey, a Professor of Philosophy, spoke at the Department of Entomology Seminar, speaking on the subject of “Swarm wars: Insects as weapons of war, terror, and torture.”

Wil Herschberger from West Virginia will be the speaker at the Annual Banquet of the Entomological Society of Washington on June 04, and will offer the topic “Songs of Insects.” The event will be at the Woodend Sanctuary, Audubon Naturalists Society in Chevy Chase, MD, and will include only a \$5.00 charge to help with drinks. Guests are otherwise expected to bring a pot-luck dish for sharing with other attendees. The presentation will be at 8:00, following the pot-luck dinner, and the entire event is between 6:00 and 9:30 pm. The announcement may be found on the internet at www.entsocwash.org.

PUBLICATIONS:

(* retired, emeritus, or former dept. member)

Lee, C-F. & **Staines, C.L.** 2009. *Hemipysix yui*, a new species from Taiwan, with redescription of its allied species *H. quadrimaculata* (Jacoby, 1892)(Coleoptera: Chrysomelidae: Galerucinae). Cole. Bul. 63(1): 62-70.

--abstract—*Hemipysix yui*, new species, is described and its allied species, *H. quadrimaculata* (Jacoby, 1892) is redescribed. Male and female reproductive systems are illustrated in detail.

Medeiros, M.J., **Davis, D.R.**, Howarth, F.G., and Gillespie, R. 2009. Evolution of cave living in Hawaiian *Schrankia* (Lepidoptera: Noctuidae) with description of a remarkable new cave species. Zool. J. Linn. Soc. 156: 114-139.

--abstract—Although temperate cave-adapted fauna may evolve as a result of climatic change, tropical cave dwellers probably colonize caves through adaptive shifts to exploit new resources. The founding populations may have traits that make colonization of underground spaces even more likely.

To investigate the process of cave adaptation and the number of times that flightlessness has evolved in a group of reportedly flightless Hawaiian cave moths, we tested the flight ability of 54 *Schrankia* individuals from seven caves on two islands. Several caves on one island were sampled because separate caves could have been colonized by underground connections after flightlessness had already evolved. A phylogeny based on approximately 1500 bp. of mtDNA and nDNA showed that *Schrankia howarthi* sp. nov. invaded caves on two islands, Maui and Hawaii. Cave-adapted adults are not consistently flightless but instead are polymorphic for flight ability. Although the new species appears well suited to underground living, some individuals were found living above ground as well. These individuals, which are capable of flight, suggest that this normally cave-limited species is able to colonize other, geographically separated caves via above-ground dispersal. This is the first example of an apparently cave-adapted species that occurs in caves on two separate Hawaiian islands. A revision of the other Hawaiian *Schrankia* is presented, revealing that *Schrankia simplex*, *Schrankia oxygramma*, *Schrankia sarothrura*, and *Schrankia arrhecta* are all junior synonyms of *Schrankia altivolans*.

Mesa, N.C., **Ochoa, R.**, Welbourn, W.C., Evans, G.A., & De Moraes, G.J. 2009. A catalog of the Tenuipalpidae (Acari) of the World with a key to genera. Zootaxa 2098: 1-185.

--abstract—The family Tenuipalpidae is worldwide in distribution and includes several economically important pest species. Species of the genus *Brevipalpus* have been identified as vectors of rhabdoviruses that cause diseases such as citrus leprosis, coffee ring spot virus, passion fruit green spot virus and others that reduce the production and the life span of the plants. An updated list of the Tenuipalpidae (Acari: Prostigmata), a key to the genera of the world and data on zoogeographical distribution of the species are presented. The catalogue provides information on 891 known species (including 3 species *incertae sedis*) belonging to 34 genera. The valid name of each species, the author, date and page of the corresponding original description, type locality and host, species designation(s), references to species redescription(s) and other complementary information are presented. The genera *Rarosiella* Rimando 1996 and *Neoraoiella* Mohansundaram 199 are synonymized with *Raoiella* Hirst 1924. The genus *Meteraepalpus* Smiley, Frost & Gerson 1996 is synonymized with the genus *Aegyptobia* Sayed 1950. Three new genera, *Magdalenapalpus*, *Chaudhripalpus* and *Urigeronius* are

erected. Indices of the plant host species and families associated with each species, the number and regional distribution of species in each genus, and a list of relevant publications of species from each zoogeographical region are included.

Winterton, S.L. & **Woodley, N.E.** 2009. New species of *Metatrichia* Coquillett (Diptera: Scenopinidae) from Australia and Venezuela. *Zootaxa* 2094: 42-51.

--abstract—Two new species of the cosmopolitan genus *Metatrichia* Coquillett are described. *Metatrichia dbimurru* sp. nov. is described from Arnhem Land (Northern Territory), Australia and represents the third species of the genus to be described from the Australasian region. *Metatrichia venezuelensis* sp. nov. from Venezuela is the third extant species of the genus to be described from the New World.

VISITORS:

Celso Azevedo of Universidade Federal do Espirito Santo, Brazil, visited **Sean Brady** and the Bethyliidae Collection May 18-25.

Richard Bloomfield, a volunteer at the Field Museum in Chicago, visited **Patricia Gentili-Poole** on April 14 for a tour of the Entomology Collection.

Art Borkent from the Royal British Columbia Museum, Victoria, BC, visited **Rick Wilkerson** and the Ceratopogonidae Collection April 2 - May 4.

Heather Briggs from the University of Michigan visited the orchid bee collection and **Sean Brady** on April 04.

Robert Copeland, NMNH Research Associate currently working in Kenya, is visiting **Allen Norrbom** to work with the Diptera Collections and confer with specialists, May 14 through June 13.

Xiaolin Chen from the Chinese Academy of Sciences, Beijing, is visiting **Allen Norrbom** and the Tephritidae Collection from April 15 through October 15.

Kimberly Huntzinger from the USDA Lab, Utah State University, visited **Sean Brady** and the bumblebee collection on April 10.

Mary Liz Jameson from Wichita State University visited **Steve Lingafelter** and the Scarabaeidae Collection April 15-17.

John Oswald and Joshua Jones from Texas A&M University, College Station, visited **Oliver Flint** and the Neuroptera Collection May 18-23.

Adrien Perrard of the Paris Museum visited **Ted Schultz** and the Vespidae Collection on May 18.

Shauna Price from the Department of Ecology & Evolutionary Biology, University of California at Los Angeles, visited **Ted Schultz** and the Formicidae Collection May 04-08, to examine specimens of the genus *Cephalotes*.

Dave Wagner from the University of Connecticut visited **Don Davis** in the Lepidoptera Unit area to meet with the Wedge Foundation, May 15.

Charles Wright from Kentucky Beetles, Frankfort, Kentucky, visited **Warren Steiner** and the Cicindelidae Collection May 18-19 to capture data from labels of tiger beetle specimens from Kentucky.

TRAVEL:

Gary Hevel traveled to Indiana Dunes National Lakeshore on May 13 to participate in the third of ten BioBlitzes sponsored by the National Park Service and the National Geographic Society on the weekend of May 15-16. He then further journeyed to the Nebraska Sand Hills and then to an entomologically famous site (now the Sand Hills State Park) at Medora, Kansas to collect insects and their allies. He returned on May 26 (just in time to prepare for the Jug Bay BioBlitz near Upper Marlboro, Maryland).

Jens Prena visited the Naturkundemuseum Berlin and the Riksmuseum Stockholm between 15-30 April. The main objective was to locate type material of early described North American weevils and to verify their identities. The trip was funded by the Museum of Comparative Zoology and the SELF fund.

Most of the **dipterists** of the combined entomological staff will spend several days in early June in San Francisco, attending the North American Dipterists Society Meeting.

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