

## **2016 International Weevil Meeting (October 1-3, Rosen Centre Hotel, Orlando, FL USA)**

**Meeting Conveners:** Robert Anderson (Canadian Museum of Nature), Dave Clarke (University of Memphis), Chris Lyal (Natural History Museum, London), Adriana Marvaldi (Universidad Nacional de La Plata), Duane McKenna (University of Memphis), & Rolf Oberprieler (CSIRO, Australian National Insect Collection)

**Summary:** The 2016 International Weevil Meeting will be held Oct. 1-3, immediately after the International Congress of Entomology (ICE) in Orlando, Florida. The meeting will consist of a series of invited and contributed talks and organized discussions. Beyond catalyzing research and collaboration, we seek to provide a forum for identifying priorities and goals for the community of researchers/students who study or otherwise have an interest in weevil classification, molecular phylogenetics, morphology, fossils, identification, and evolution. Registration is free, but space is limited (contact Duane McKenna for registration: dmckenna@memphis.edu).

### **PRELIMINARY PROGRAM**

A final program for the meeting will be sent to registered participants via email in September. Most talks will be 40 minutes (30 min presentation plus 10 min discussion). All meeting events will be held in the Rosen Centre Hotel, Salon 13/14.

**FRIDAY SEPT. 30 (Evening):** Onsite registration (space permitting)

### **SATURDAY OCT. 1 (8am-6pm): Weevil Morphology**

- Workshop introduction and welcoming remarks (Duane McKenna)
- Introduction to session (Conveners: Adriana Marvaldi, Rolf Oberprieler & Dave Clarke)
- Introduction to cucujiform systematics and morphology (Rich Leschen & John Lawrence)
- Characters and homology assessment (adults) (Dave Clarke)
- Internal character systems (adults) (Steve Davis)
- Larval character systems (Adriana Marvaldi)
- Weevil morphological terminology (Chris Lyal)
- Group discussion moderated by conveners (Adriana Marvaldi, Rolf Oberprieler & Dave Clarke)
- Lunch (on your own)
- 1K Weevils morphological phylogenetic analyses (Dave Clarke, Adriana Marvaldi, Duane McKenna)
- Morphological character evolution in Scolytinae (Bjarte Jordal)
- Evolutionary development of the weevil rostrum (Steve Davis)
- Systematics of Neotropical Entiminae: Eustylini, Geonemini (Guanyang Zhang, Sara Tanveer, Nico Franz)
- Dryophthorinae larval morphology (Lourdes Chamorro)
- Group discussion moderated by conveners
- Dinner (on your own)
- Evening activity (TBD)

### **SUNDAY OCT. 2 (8am-6pm): Weevil Fossils, Biogeography & Host/Habitat Associations**

- Welcoming remarks (D. McKenna)
- Introduction to session (Conveners: Rolf Oberprieler & Bob Anderson)
- Fossil overview and the Daohugou-Karatau deposits (Rolf Oberprieler)
- Yixian formation fossils (Steve Davis)
- Santana formation fossils (Jose-Ricardo Mermudes; recorded presentation)
- Burmese amber fossils (Rolf Oberprieler)
- Group discussion moderated by conveners (topic: oldest reliable fossil weevils for calibrating molecular phylogenies)
- Effects of insect-host interactions on the diversification of palm-associated weevils (Bruno Souza de Medeiros & Brian Farrell)
- Lunch (on your own)

- Weevil habitat associations and host evolution/coevolution (Bob Anderson)
- A biogeographic overview of the New Zealand weevil fauna (Sam Brown)
- Evolution of parthenogenesis in South American Naupactini: Insights into its origin and consequences (Analia Lanteri)
- New World aquatic weevils in the tribe Stenopelmini (Charlie O'Brien)
- Patterns of host use within a lineage of temperate and tropical saproxylic beetles (Scolytinae: Scolytini) (Anthony Cognato)
- Timing and host plant associations in the evolution of the weevil tribe Apionini (Apioninae, Brentidae) indicate an ancient co-diversification pattern of beetles and flowering plants (Sven Winter, Ariel Friedman, Jonas Astrin, Brigitte Gottsberger & Harald Letsch)
- Group discussion moderated by conveners
- Dinner (on your own)
- Evening activity (TBD)

**MONDAY OCT. 3 (8am-545pm): Molecular Phylogenetics & Classification of Weevils**

- Welcoming Remarks (Duane McKenna)
- Introduction to Session (Conveners: Chris Lyal & Duane McKenna)
- Overview, genomic resources (Duane McKenna)
- The 1K Weevils Project (Duane McKenna)
- Bark and ambrosia beetle phylogeny and diversification (Bjarte Jordal)
- Structurally-aligned rRNA sequences and weevil phylogeny (Adriana Marvaldi)
- Phylogeny of Dryophthorinae (Lourdes Chamorro)
- Group discussion moderated by conveners
- Lunch (on your own)
- Some outstanding phylogenetic problems in broad-nosed weevils: The Entiminae, Cyclominae and allies (CEGH clade) (Adriana Marvaldi & Rolf Oberprieler)
- Big blocks and little blocks: Phylogeny of the CCCMS clade (Curculioninae, Conoderinae, Cossoninae, Molytinae, Scolytinae) (Chris Lyal)
- Regional databases in Curculionidae: An example for the Naupactini (Curculionidae: Entiminae) from Argentina and Uruguay (Guadalupe del Rio)
- Comments on weevil classification (Willy Kuschel; read by Rich Leschen)
- Curculionidae classification: Viewpoints and vision (Chris Lyal)
- Group discussion moderated by conveners
- Closing remarks (Duane McKenna)