MINUTES FOR FY 2013

The following are brief synopses of the minutes of the meetings of the Hawaiian Entomological Society for the fiscal year 2013. The HES fiscal year runs from March 1 to the end of February of the following year. More detailed minutes are kept with the Secretary of the Society.

May

The 1111th meeting of the Hawaiian Entomological Society was held at the Department of Plant and Environmental Protection Sciences, University of Hawaii at Manoa, Honolulu, on Thursday, 31 May 2013, with President Paul Krushelnycy presiding. Eighteen members, two Hawaii island members joining us via video conferencing, and nine guests were present.

Program: Guest speaker Dr. Ryan Caesar, University of Hawaii Junior Researcher, presented a talk on the “Quantification of complex morphology using 3-D surface models: an example from male cerci of Argia damselflies.” For more information on the Digital Morphology used in Dr. Caesar’s study, visit www.digimorph.org.

Reports of Committees:

Science Fair: The Chair reported the 56th Hawaii State Science and Engineering Fair Results, which took place on April 7 through 9 at the Hawaii Convention Center. The following students were selected as winners of The Kanjyo and Bertha Sakimura Awards:

1st Place Senior Research: Noa Gagner (home school): “A Novel Delivery System for the Beauveria bassiana Fungus to Control Invasive Fire Ants.” Noa conceived the idea for this project because of all the little fire ant (Wasmannia auropunctata) stings he received when he would harvest bananas. With the guidance of HES member Brian Bushe, Noa experimented with a peanut butter and B. bassiana fungus mixture in an attempt to control the little fire ants.

1st Place Junior Research: Anne Nakamoto (Waiakea Intermediate School): “Two Bees or Not Two Bees... (Pollinating Invasive Fireweed): That is the Question. A Study of Native Hylaeus Bee and Introduced Honey Bee Visitations to Flowering Fireweed as Compared to the Native Mamame Tree.” Anne, interested in doing a science fair project on pollination, consulted with HES member Jesse Eiben, which resulted in a very detailed and extensive study on the visitation of fireweed (Senecio madagascariensis) and mamane (Sophora chrysophylla) flowers by Hylaeus and Apis bees.

2nd Place Junior Research: Kelsey Ige (St. Ann’s Model School): “Die! Cockroach Die!” Using her father, a pest control technician, to catch American cockroaches, Kelsey explored the development of organic methods in controlling these household pests.

Honorable Mention: Matthew Dufale (Kalakaua Intermediate School): “Ferticide.” Matthew decided to take his 2012 science fair project, “Put Your Pest Aside,” and take it a step further this year. Matthew looked at ways to control pests through organic means with the addition of fertilizers.

Ray Joyce Award in Medical/Veterinary Entomology: Meilan Sin (Kalakeo High School): “Shoo Fly, Don’t Bother Me!” Meilan wanted to find an organic method of controlling flies around her beloved horses. Using various essential oils, Meilan experimented with seeing which oils were the most effective at repelling the annoying flies and other insects.

Mahalo to the following HES members who helped mentor students this year: Brian Bushe, Jesse Eiben, and Peter Follett.
August

The 1112th meeting of the Hawaiian Entomological Society was held at the Department of Plant and Environmental Protection Sciences, University of Hawaii at Manoa, Honolulu, on Thursday, 15 August 2013, with President Paul Krushelnyczky presiding. Seventeen members and thirteen guests were present.

Program: Guest speaker Dr. Kirk Hillier, Acadia University, Nova Scotia, presented his talk, “Picking the insect brain: applied chemical ecology based in neural approaches.”

Notes and Exhibitions: Mr. Patrick Conant, Hawaii Department of Agriculture, presented several newly detected alien species in Hawaii:

- A new psyllid detected on *Pittosporum japonicum* from Honolulu, Oahu. A possible *Cacopsylla tobirae* (Miyatake) (Hemiptera: Psyllidae) was sent to the USDA Systematic Entomology Laboratory for identification to species, but has not yet been confirmed.
- A long-horned beetle, *Acalolepta aesthetica* (Oliff) (Coleoptera: Cerambycidae), is apparently established on Hawaii island. Several specimens have been collected at large, but the host plant remains unknown in Hawaii.
- *Naupactus leucoloma* Boheman (Coleoptera: Curculionidae) is an additional new beetle from Hawaii island. The whitefringed weevil was found swarming around a Waimea home’s porch.

New Island Record: *Trachymela sloanei* (Blackburn), the Australian tortoise beetle, first discovered on Oahu in 2009, has now been detected on Maui. This eucalyptus leaf-feeder was found at various life stages on *Eucalyptus camaldulensis* (red gum eucalyptus) in Kapalua.

December

The 1113th meeting of the Hawaiian Entomological Society was held at the Department of Plant and Environmental Protection Sciences, University of Hawaii at Manoa, Honolulu, on Friday, 13 December 2013, with President Paul Krushelnyczky presiding. Twenty members and seven guests were present.

Program: Guest speaker Dr. William Haines, from The University of Hawaii, presented his talk on the “Defoliation of Koa by the Native Caterpillar *Scotorythra paludicola* (Geometridae): History, Monitoring, and Research.”

Notes and Exhibitions: Mr. Darcy Oishi, Hawaii Department of Agriculture, presented the crown flower leafminer, *Liriomyza* sp. (Diptera: Agromyzidae). This agromyzid was first collected in 2013, by a University of Hawaii student, on *Calotropis gigantea* on the UH Manoa campus, then collected in Kunia and Waikiki, Oahu. This apparently undescribed species of *Liriomyza* produces blotch mines on crown flower foliage and has been sent out to experts in hopes of a species description. Natural enemies found parasitizing this leafminer include *Diglyphus begini* (Ashmead) and *Closterocerus utahensis* Crawford (Hymenoptera: Eulophidae).

In addition, the hala scale, *Thysanococcus pandani* (Stickney) (Hemiptera: Halimococcidae), has been found in limited distribution on Oahu at two sites belonging to the same property owner. A single potted hala plant in Wahiawa and several trees in Waialua infested with *T. pandani* were found in 2013. The single potted plant from Wahiawa was relinquished to HDOA-PPC, while an attempt to eradicate the Waialua population is ongoing.

March

The 1114th meeting of the Hawaiian Entomological Society was held at the Department of Plant and Environmental Protection Sciences, University of Hawaii at Manoa, Honolulu, on Friday, 21 March 2014, with President Paul Krushelnyczky presiding. Twenty-one members and eight guests were present.
Program: Guest speaker Dr. Francis G. Howarth, Bishop Museum, presented his talk “Notes from underground—a half century as an iconoclastic entomologist!”

Notes and Exhibitions: Dr. Luc Leblanc, University of Hawaii, reported additional information on the identity of Protactia orientalis (Gory & Percheron), on which he recently published a note (Proc. Hawaiian Entomol. Soc. 45: 45–48). Dr. Leblanc was informed by Dr. Takatoshi Ueno, from the Kyushu University Institute of Biological Control, that the beetles that invaded Hawaii belong to the subspecies sakaii. This subspecies was originally endemic to Taiwan, and more recently introduced into the Okinawan islands, Guam, and Hawaii. The specimens examined are deposited in the University of Hawaii Insect Collection.

Mr. Andersonn Prestes, University of Hawaii, reported Feltia subterranea (Fabricius) (Lepidoptera: Noctuidae) is a new species introduced to the Hawaiian Islands.

Members of the Daniel Rubinoff laboratory, University of Hawaii, collected four specimens of F. subterranea from three different islands in the past seven years. The moth, widespread and common in North America, was found on Maui, Lanai, and Hawaii islands, all after the year 2006. F. subterranea, commonly called the granulated cutworm, is a migratory species, which also occurs in Central and South America as far south as Peru and Brazil. The larvae are polyphagous, feeding on bean, beet, cabbage, corn, lettuce, peas, potato, tobacco, tomato, and turnip, among others. As a species with a broad range, including tropical areas, and great mobility, it is possible that Hawaii may become a favorable place to spread.

Ms. Janis Matsunaga, Hawaii Department of Agriculture, presented specimens of the recently established coconut rhinoceros beetle (CRB), Oryctes rhinoceros. While adult specimens of O. rhinoceros have been “intercepted” at ports of entry previously, the first confirmed adult CRB was collected from a trap in December 2013, from the Joint Base Pearl Harbor/Hickam. Since then, hundreds of adult beetles were caught in panel traps with CRB pheromone lures, and multiple breeding sites have been found within several miles of the original breeding site discovered at Mamala Bay Golf Course.

Wasmannia auropunctata, the little fire ant (LFA), was detected on Oahu for the first time, in December 2013. After intensive surveys island wide, several garden shops that imported live hapuu logs from the Big Island were found to have LFA infestations present. Shortly after, LFA infestations were found at plant nurseries in Waimanalo. Like Oahu, Maui garden shops also imported LFA-infested hapuu logs from the Big Island; however, an LFA population previously has been found on Maui.

Reports of Committees:

Election Results:
Next President: Dr. Helen Spafford
President Elect: Dr. William Haines
Secretary: Ms. Janis Matsunaga
Treasurer/Business Manager: Mr. Darcy Oishi
Advisor: Mr. Dick Tsuda

New Honorary Memberships: Dr. Al Samuelson, Bishop Museum, and Mr. Patrick Conant, Hawaii Department of Agriculture.
MEMBERSHIP 2013

HONORARY MEMBERS

Balock,  J.W.                      Howarth,  F.G.                       Morrill,  A.W.                        Tamashiro, M.
Haramoto,  F.H.                    Look,  W.C.                           Shiroma, E.                            Tanada, Y.
Harris,  E.J.                      Mau,  R.F.L.

RETIRED MEMBERS

Andrews, W.B.                      Heu,  R.                               McInnis,  D.                           Schaefer, P.W.
Armstrong, J.W.                    Higa,  S.                               McMahan, E.                            Shimoda, L.
Brennan,  B.M.                     Hinkley, A.D.                          Nakahara, L.                           Swift, S.F.
Brown,  W.                         Howarth, F.G.                          Nakahara, S.                            Takei, G.
Conant,  P.                        Jamieson,  D.                           Nampong,  B.                            Tanabe, A.
Early-Chun,  M.                    Kaya,  H.                               Nowell,  W.R.                           Tanaka, N.
Fujii,  J.                          Kunishi, R.K.                           Olson,  F.J.                            Teramoto, K.
Funasaki,  G.Y.                    Markin,  G.P.                           Pinter,  L.                             Toyama, G.M.
Gimero,  J.                        Matayoshi,  S.                         Rutschky,  C.W.                         Yamamoto, Robin
Haverty,  M.                      McCombs,  S.D.                         Samuelson,  G.A.                        Yano, K.
                                         |                                         |                                         | Yoshioka,  E.

ACTIVE MEMBERS

Aarness,  E.                        Giffin,  J.                             Lynch,  C.                             Puliafico,  K.
Adkins,  P.                         Graham,  C.                             Mafra-Neto,  A.                         Ramadan,  M.M.
Almeida,  R.                        Grace,  J.K.                            Magnacca,  K.                           Reimer,  N.J.
Burnham-Larish,  L.               Haines,  W.                             Martin,  C.                            Richardson,  M.
Burnett,  E.                        Hara,  A.H.                             Matsunaga,  J.                          Rubino,  D.
Bushe,  B.C.                       Hasty,  J.                               McGrath,  C.                            San Jose,  M.
Caldwell,  D.                      Hauff,  R.                               McHugh,  J.,  Jr.                       Simon,  C.
Campbell,  R.                      Higashi,  C.                            McQuate,  G.                            Smith,  C.
Chaney,  N.                        Hight,  S.                               Medeiros,  M.                           Spafford,  H.
Chou,  M.                          Inskeep,  J.                             Meyers,  K.                             Starr,  F.
Craddock,  E.                      Jameson,  M.                             Miller,  S.                             Steck,  G.J.
Culliney,  T.W.                    Johnson,  M.T.                           Miller,  R.                             Strazanac,  J.S.
Curtiss,  R.                      Kanour,  W.  W.,  Jr.                   Montgomery,  S.L.                       Taylor,  A.
Davenport,  C.                     Kapan,  D.                               Moore,  A.                              Thompson,  F.C.
Downey,  D.                        King,  C.                               Nagamine,  W.T.                         Tsuda,  D.M.
Dunlap,  J.                        Koga,  R.E.                              Nisson,  J.N.                           Vanderwoude,  C.
Eiben,  J                          Kruschelnickly,  P.                     Ocenar,  J.                             Vargas,  R.I.
Else,  P.                          Kumashiro,  B.R.                        Ogura-Yamada,  C.                       Vorsino,  A.
Evenhuis,  N.L.                   Lance,  D.                               Oi,  D.H.                               Walguanery,  J.
Follett,  P.                      Leblanc,  L.                             Oi,  F.M.                                Watanabe,  T.M.
Fukada,  M.                       Lee, S.G.                                Oishi,  D.                               Wright,  M.
Gagné,  B.H.                      Liebherr,  J.                            Peck,  R.                                Yang,  P.J.
Gayle,  S.                        Liquido,  N.J.                           Perreira,  W.D.                         Yates  III,  J.R.
Geib,  S.                         Loechelt-Yoshioka, H.  Prestes,  A.
EXECUTIVE COMMITTEE

President.......................................................... Dr. Paul Kruschelnycky
President-Elect ......................................................... Dr. Helen Spafford
Secretary .............................................................. Ms. Janis Matsunaga
Treasurer ................................................................... Mr. Darcy Oishi
Advisor ................................................................. Mr. Dick Tsuda