Aubrey Moore

TEL: 671-686-5664

aubreymoore@guam.net

Education

1988	Ph.D., Entomology, University of Hawaii, Honolulu, Hawaii
1984	M.S., Entomology, Michigan State University, East Lansing, Michigan
1979	B.Sc., Integrated Science Studies, Carleton University, Ottawa, Ontario

Professional Experience

2008-Pres.	Extension Entomologist, Cooperative Extension Service, University of Guam, Guam
2003-2008	Research Associate, College of Natural & Applied Sciences, University of Guam, Guam
1999-2003	Pesticide Evaluator, Pest Management Regulatory Agency, Health Canada, Ottawa, ON
1998-1999	Entomologist, School of Agriculture & Life Sciences, Northern Marianas College, Saipan
1992-1997	Research Director, School of Agriculture & Life Sciences, Northern Marianas College, Saipan
1991-1992	Entomologist, Northern Mariana Islands Department of Natural Resources, Saipan
1990-1991	Entomologist, USDA Agricultural Development in the American Pacific Project, Guam & Maui
1989-1990	Research Associate, University of Hawaii Agricultural Experiment Station, Maui, Hawaii
1988	Post-doctoral Fellow, Hawaiian Evolutionary Biology Program, Honolulu, Hawaii
1985–1988	Graduate Assistant, Department of Entomology, University of Hawaii, Honolulu, Hawaii

1985-1986	Programmer/consultant, University of Hawaii Computing Centre, Honolulu, Hawaii
1984	Research Associate, Department of Entomology, Michigan State University, East Lansing, MI
1984	Entomologist, Insect and Rodent Control Section, Michigan Dept. of Public Health, Lansing, ${\bf MI}$
1981-1984	Graduate Assistant, Department of Entomology, Michigan State University, East Lansing, MI
1979-1981	Research Tech., Forest Pest Management Institute, Environment Canada, Sault Ste. Marie, ON
1975-1979	Research Technician, Chemical Control Research Institute, Environment Canada, Ottawa, ON

Professional Memberships

Entomologial Society of America Hawaian Entomological Society Florida Entomological Societry Pacific Science Association Sigma Xi Research Fraternity

Publications

Book Chapters

[1]	Moore, A. & J. A. Tenorio 2006. Our Islands' Insects and Their Relatives. In <i>Island Ecology and Resource Management</i> . Editor: J. Furey; Publisher: Northern Marianas College Press.
[2]	Schreiner, I., L. Yudin, A. Moore & D. Nafus 1998. Management of Insects and Mites. In <i>Guam Cucurbit Guide</i> . Editors: L. Yudin & R. Schlub; Publisher: College of Agriculture & Life Sciences, University of Guam.

[3] Hunter, W. B., D. E. Ullman & A. Moore 1994. Electronic Monitoring: Characterizing the Feeding Behavior of Western Flower Thrips (Thysanoptera: Thripidae). in *History, Development, and Application of AC Electronic Insect Feeding Monitors*. Editors: M. M. Ellsbury, E. A. Backus & D. L. Ullman; Publisher: Entomological Society of America.

Refereed Journal Articles

- [1] Moore, A., T. Jackson, R. Quitugua and P. Bassler 2015. Coconut rhinoceros beetle, *Oryctes rhinoceros* (Coleoptera: Scarabaeidae), grubs develop in live coconut palm crowns on Guam. Florida Entomologist, 98(3):1012-1014.
- [2] Moore, Aubrey, Gillian Watson, and Jesse Bamba 2014. First record of eggplant mealybug, Coccidohystrix insolita (Hemiptera: Pseudococcidae), on Guam: Potentially a major pest. Biodiversity Data Journal 2. DOI: 10.3897/BDJ.1.e1042. URL: http://biodiversitydatajournal.com/articles.php?id=1042.
- [3] Fisher, Nicole, Aubrey Moore, Bradley Brown, Matthew Purcell, Gary Taylor, and John Salle 2014. Two new species of Selitrichodes (Hymenoptera: Eulophidae: Tetrastichinae) inducing galls on Casuarina (Casuarinaceae). Zootaxa 3790.4, 534–542. ISSN: 1175-5334. URL: http://biotaxa.org/Zootaxa/article/view/zootaxa.3790.4.2/7933.
- [4] Marler, T.E, A. Moore, and R. Miller 2013. Vertical stratification in predation of armored scale on *Cycas micronesica* seedlings. HortScience 48(1) 60-62.
- [5] Marler, TE, Wiecko G, Moore A. 2012. Application of game theory to the interface between militarization and environmental stewardship in the Mariana Islands. Commun Integr Biol. 5:193-195 .URL: http://dx.doi.org/10.4161/cib.18889
- [6] Marler, T. E., L. S. Yudin and A. Moore 2011. Schedorhinotermes longirostris (Isoptera: Rhinotermitidae) invades Guam: yet another assault on the endemic Cycas micronesica. Florida Entomologist 94: 699-700.
- [7] Marler, T. E. and A. Moore 2011. Military threats to terrestrial resources not restricted to wartime: a case study from Guam. Journal of Environmental Science and Engineering (USA) 5: 1198-1214.
- [8] Marler, T. E. and A. Moore 2010. Cryptic scale infestations on *Cycas revoluta* facilitate scale invasions. HortScience 45(5): 837-839.
- Van Driesche, R.G., Carruthers, R.I., Center, T., Hoddle, M.S., Hough-Goldstein, J., Morin, L., Smith, L., Wagner, D.L., Blossey, B., Brancatini, V., Casagrande, R., Causton, C.E., Coetzee, J. A., Cuda, J., Ding, J., Fowler, S.V., Frank, J.H., Fuester, R., Goolsby, J., Grodowitz, M., Heard, T.A., Hill, M.P., Homann, J.H., Huber, J., Julien, M., Kairo, M.T.K., Kenis, M., Mason, P., Medal, J., Messing, R., Miller, R., Moore, A., Neuenschwander, P., Newman, R., Norambuena, H., Palmer, W.A., Pemberton, R., Perez Panduro, A., Pratt, P.D., Rayamajhi, M., Salom, S.,

- Sands, D., Schooler, S., Sheppard, A., Shaw, R., Schwarzländer, M., Tipping, P.W., van Klinken, R.D., 2010. Classical biological control for the protection of natural ecosystems: past achievements and current efforts. Biological Control. Biological Control 54 Supplement 1: S2-S33.
- [10] Mankin, R.W., A. Moore 2010. Acoustic detection of *Oryctes rhinoceros* (Coleoptera: Scarabaeidae: Dynastinae) and *Nasutitermes luzonicus* (Isoptera: Termitidae) in palm trees in urban Guam. Journal of Economic Entomology. 103: 1135-1143.
- [11] Moore, A. & L. R. Barber 2008. Wiki based fact sheets. Journal of Extension 46(3).
- [12] Moore, A. & R. H. Miller 2008. *Daphnis nerii* (Lepidoptera: Sphingidae), a new pest of oleander on Guam. Proc. Hawaiian Entomol. Soc. 40: 67-70.
- [13] Zack, R.S., A. Moore & R.H. Miller 2007. First record of a pygmy backswimmer (Hemiptera: Pleidae) from Micronesia. Zootaxa 1617: 67-68.
- [14] Williams, D. J., P. J. Gullan, K. Englberger & A. Moore 2006. Report on the scale insect, *Icerya imperatae*, Rao (Hemiptera: Coccoidea: Margarodidae) seriously infesting grasses in the Republic of Palau. Micronesica 38(2): 269-274.
- [15] Moore, A. & R. Miller. 2002. Automated identification of optically sensed aphid wingbeat waveforms. Ann. Entomol. Soc. Am. 95(1): 1-8.
- [16] Caprio, M.A., J.-X. Huang, M.K. Faver & A. Moore. 2001. Characterization of male and female wingbeat frequencies in the *Anopheles quadrimaculatus* complex in Mississippi. Journal of the American Mosquito Control Association: 17(3): 186-189.
- [17] Moore, A. 1998. Development of a data acquisition system for long-term outdoor recording of insect flight activity using a photosensor. Proceedings of the 13th Conference on Biometeorology and Aerobiology, Albuquerque, New Mexico.
- [18] Chiu, C. H. & A. Moore. 1993. Biological control of the Philippine lady beetle, *Epilachna philippinensis* Dieke (Coleoptera: Coccinelidae), on solanaceous plants by introducing the parasitoid, Pediobius foveolatus Crawford (Hymenoptera: Eulophidae), on Saipan. Micronesica, Supplement No. 4: 79-80.
- [19] Moore, A., B. E. Tabashnik & M. D. Rethwisch. 1992. Sublethal effects of fenvalerate on adults of the diamondback moth. J. Econ. Entomol. 85: 1624-1627.
- [20] Moore, A. 1991. Automated identification of insects in flight. Micronesica. Supplement No. 3: 129-133.

- [21] Moore, A. 1991. Artificial neural network trained to identify mosquitoes in flight. J. Insect Behavior. 4: 391-395.
- [22] Moore, A., B. E. Tabashnik, & J. D. Stark 1989. Leg autotomy: a novel mechanism of protection against insecticide poisoning in the diamondback moth (Lepidoptera: Plutellidae). J. Econ. Entomol. 82: 1295-1298.
- [23] Moore, A. and B. E. Tabashnik 1989. Leg autotomy of adult diamond-back moth (Lepidoptera: Plutellidae) in response to tarsal contact with insecticide residues. J. Econ. Entomol. 82: 381-384.
- [24] Moore, A. 1988. Auto-amputation in diamondback moths: a new form of insecticide resistance? Pacific Science 42: 128-129.
- [25] Moore, A., J. R. Miller, B. E. Tabashnik and S. H. Gage 1986. Automated identification of flying insects by analysis of wingbeat frequencies. J. Econ. Entomol. 79: 1703-1706.
- [26] O. N. Morris and A. Moore 1983. Relative potencies of *Bacillus thuringiensis* for larvae of the spruce budworm, *Choristoneura fumiferana* (Lepidoptera: Tortricidae). Can. Entomol. 115: 815-822.
- [27] O. N. Morris and A. Moore 1983. Changes in spruce budworm, *Choristoneura fumiferana* (Lepidoptera: Tortricidae), biomass in stands treated with commercial Bacillus thuringiensis var. kurstaki. Can. Entomol. 115:4.
- [28] Moore, A. and O. N. Morris 1982. An improved technique for dosing larvae of the spruce budworm, *Choristoneura fumiferana* (Lepidoptera: Tortricidae) with measured amounts of *Bacillus thuringiensis* var. *kurstaki*. Can. Entomol. 114:89-91.

Scientific Meeting Presentations

- [1] Ares, M.A., N. Meneses, A. Smith, Aubrey Moore, and R. Benford 2015. Molecular identification of a Lepidopteran herbivore on a critically endangered tree. Northern Arizona Undergraduate Symposium.
- [2] Moore, Aubrey 2014. Biological invasion of forests on Guam and other islands of Micronesia. 65th Western Forest Insect Work Conference. Oral presentation. Sacramento, California.
- [3] Moore, Aubrey 2014. Evaluation of a Scratchpad template as an online database for the University of Guam insect collection. iDigBio Biodiversity Collections Digitization in the Pacific Workshop. Oral presentation. Honolulu, Hawaii.
- [4] Moore, Aubrey 2014. Insects Attacking Serianthes nelsonii. 2014 Island Sustainability Conference. Guam.

- [5] Moore, Aubrey 2015. Failure analysis of the Guam coconut rhinoceros beetle eradication project". Pacific Entomology Conference. URL: http://guaminsects.net/anr/sites/default/files/pec2015-crb-failure(10).pdf
- [6] Moore, Aubrey and Roland Quitugua 2014. Overview of the Guam co-conut rhinoceros beetle eradication project. Hawaii CRB Incident Command Meeting. Honolulu, Hawaii. URL: http://guaminsects.net/presentations/CRB Hawaii-ICS-Jan-2014.pdf
- [7] Co-Moore, Aubrev and Roland 2015. Quitugua conut rhinoceros beetle improvements". URL: trap http://guaminsects.net/anr/sites/default/files/pec2015improvedtraps.pdf
- [8] Moore, Aubrey, Roland Quitugua, Mattew Siderhurst, and Eric Jang 2014. Improved traps for the coconut rhinoceros beetle, Oryctes rhinoceros. Entomological Society of America, Portland, OR. URL: http://guaminsects.net/anr/sites/default/files/Moore_1957_2.pdf
- [9] Moore, A. 2012. Guam as a source of new insects for Hawaii. Pacific Entomology Conference. Conference Paper (oral presentation)
- [10] Moore, A. 2012. CRB is the BTS of the 21st Century. Brown Treesnake Technical Working Group Meeting. Conference Paper (oral presentation)
- [11] Moore, A. 2012. Insect pests of ironwoods. Ironwood Decline Conference, Guam. Conference Paper (oral presentation)
- [12] Moore, A. 2012. Insect pests of trees on Guam. Ironwood Decline Conference, Guam. Conference Paper (oral presentation)
- [13] Moore, A. 2012. Update on the Guam coconut rhinoceros beetle eradication project. Western Micronesia Invasive Species Committee Annual Meeting. Conference Paper (oral presentation)
- [14] Moore, A. 2012. Update on the Guam coconut rhinoceros beetle eradication project. Guam Invasive Species Council. Conference Paper (oral presentation)
- [15] Moore, A, Quitugua R. 2011. Challenges of eradicating coconut rhinoceros beetle, *Oryctes rhinoceros*, on Guam. Society of American Foresters Annual Conference. Conference Paper (oral presentation)
- [16] Moore, A. 2011. Update on the Guam coconut rhinoceros beetle eradication project. Entomological Society of America Pacific Branch Annual Meeting. Conference Paper (oral presentation)

- [17] Moore, A. 2011. Evaluation of a Scratchpad Template as an Online Database for the University of Guam Insect Collection. Entomological Collections Network Annual Conference. Conference Paper (oral presentation)
- [18] Miller, RH, Moore A, Reddy GVP. 2011. The invasion of Pacific islands: some thought on invasive species, insular ecosystems, and human impact in the western Pacific. Entomological Society of America Pacific Branch Annual Meeting. Conference Paper (oral presentation)
- [19] Moore, A. 2011. An update on the Guam coconut rhinoceros beetle eradication project. Western Micronesia Invasive Species Committee Annual Meeting. Conference Paper (oral presentation)
- [20] Moore, A. 2011. Containing the rhinoceros beetle outbreak on Guam. International Plant Protection Congress. Conference Paper (oral presentation)
- [21] Mersha, Z, Schlub RL, Spaine P, Smith J, Nelson S, Moore A, McConnell J, Pinyopusarerk K, Nandwani D, Badilles A. 2010. Pre and post January 2009 Guam ironwood, *Casuarina equisetifolia*, tree decline conference. Conference Paper (oral presentation)
- [22] Moore, A. 2010. Update on the Guam Coconut Rhinoceros Beetle Eradication Project. Entomological Society of America Annual Meeting. Conference Paper (oral presentation)
- [23] Mersha, Z, Schlub RL, Moore A. 2009. The state of ironwood, Casuarina equisitifolia ssp. equisitifolia, decline on the Pacific island of Guam. American Phytopathological Society. Conference Paper (poster presentation)
- [24] Moore, A, Miller RH, Marler TE. 2009. Guam's native cycads attacked by a coalition of invasive species. Entomological Society of America Annual Meeting. Conference Paper (poster presentation)
- [25] Kirsch, P, Moore A, Kirsch C, Oluput G. 2009. Q-TRAP: In-transit detection of bioinvasive insects in intermodal shipping containers. 6th International Integrated Pest Management Symposium. Conference Paper (poster presentation)
- [26] Kirsch, P, Wan E, Hunt J, Moore A. 2009. Monitoring and automatic classification of flying insects. 6th International Integrated Pest Management Symposium. Conference Paper (poster presentation)
- [27] Moore, A. 2008. Attempted eradication of the coconut rhinoceros beetle, Oryctes rhinoceros, (Scarabaeidae), a recently arrived invasive species on Guam. Entomological Society of America Annual Meeting. Conference Paper (oral presentation)

- [28] Mankin, RW, Moore A, Samson PR, Chandler KJ. 2008. Acoustic characteristics of rhino beetle stridulations. Entomological Society of America Annual Meeting. Conference Paper (oral presentation)
- [29] Moore, A., C. Apperson, J. McLaughlin, P. Kirsch & D. Czokajlo. Automated classification of morphologically identical mosquito sibling species using wingbeat harmonics. Poster presentation at the Annual Meeting of the Entomological Society of America, San Diego, December, 2007.
- [30] Moore, A. & R. H. Miller. Establishment of the Lady Beetle, *Rhyzobius lophanthae*, for biological control of the Asian cycad scale, *Aulacaspis yasumatsui* on Guam. Annual Meeting of the Regional Biological Control Project. Kona, Hawaii, October 2007.
- [31] Moore A. Environmental Effects of Military Presence on Guam. Keynote speaker; Annual Meeting of Land Grant Financial Officers, Guam, August 2007.
- [32] Moore A. Invasive Insects on Guam. Guest speaker; TSTAR Economics of Invasive Species Workshop. Guam, February, 2006.
- [33] Moore A. FAST-ID: Instrumentation for Automated Classification of Flying Insects Using Optically-Sensed Wingbeat Waveforms. Western Pacific Tropical Research Center Conference, August, 2006.
- [34] Moore A. FAST-ID: Instrumentation for Automated Classification of Flying Insects Using Optically-Sensed Wingbeat Waveforms. Guest speaker, Hawaiian Entomological Society, Honolulu, Hawaii, January, 2006.
- [35] Moore, A. Development of an optical flying insect detection and identification system (OFIDIS).[poster] International Conference on Integrated Pest Management, Toronto 2002.
- [36] Moore, A. Development of an optical flying insect detection and identification system (OFIDIS). Entomological Society of Canada Annual Meeting, Niagara Falls 2001.
- [37] Moore A. Development of an optical flying insect detection and identification system (OFIDIS). Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, Montreal, 2000.
- [38] French, M., J. Miller & A. Moore. Optical flying insect detection and identification system (OFIDIS): Calibration and detection of insects in the aquatic and forest-edge setting. Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada, Montreal, 2000.

- [39] Moore, A. Development of an optical flying insect detection and identification system (OFIDIS). Symposium 5.1: Technologies for Movement and Migration Research; XXI International Congress of Entomology, Brazil, 2000.
- [40] Moore, A. & R. H. Miller. Automated identification of optically sensed aphid wingbeat waveforms. Entomological Society of America Annual Meeting, Atlanta, 1999.
- [41] Miller, R., K. Pike, P. Stary, A. Moore. Aphids and aphidiid parasitoids in the Mariana Islands of Guam, Saipan, Tinian, and Rota [poster]. Entomological Society of America Annual Meeting, Atlanta, 1999.
- [42] Miller, R. H., K. S. Pike, P. Stary & A. Moore. Pacific island (Guam, Saipan, Tinian) aphids and associated parasitoids. Entomological Society of America Pacific Branch Meeting, Eugene, Oregon, 1999. [poster]
- [43] Moore, A. Automated monitoring of insect flight activity in the field using a photosensor. Entomological Society of America Annual Meeting, Las Vegas, 1998.
- [44] Miller, R. H., K. S. Pike, A. Moore & P. Stary. Opportunity for biological control of aphids in the Mariana Islands. Entomological Society of America Annual Meeting, Las Vegas, 1998. [poster]
- [45] Moore, A. Development of a data acquisition system for long-term outdoor recording of insect flight activity using a photosensor. 13th Conference on Biometeorology and Aerobiology, Albuquerque, 1998.
- [46] Moore, A. Automated monitoring of flying insects using optically-sensed wingbeat waveforms. Entomological Society of America Annual Meeting, Nashville, 1997.
- [47] Moore, A. & J. W. Brown. Automated monitoring of free-flying insects using wingbeat waveforms. XX International Congress of Entomology, Florence, 1996. [poster]
- [48] Moore, A. Fruit flies in the Marianas: Past, Present, & Future. III Regional Conference on Agricultural Development in Micronesia. Saipan, 1993.
- [49] Moore, A. Population dynamics of *Bactrocera* fruit flies on Saipan. VII Pacific Science Inter-Congress, Okinawa, 1993.
- [50] Chiu, C. H. & A. Moore. Biological control of the Philippine lady beetle, *Epilachna philippinensis* Dieke (Coleoptera: Coccinelidae), on solanaceous plants by introducing the parasitoid, Pediobius foveolatus Crawford (Hymenoptera: Eulophidae), on Saipan. XIX International Congress of Entomology, Beijing, 1992.

- [51] Moore, A. Identification of flying insects using an artificial neural network to recognize wingbeat spectra. XIX International Congress of Entomology, Beijing, 1992. [poster]
- [52] Gruenhagen, N. M., E. A. Backus, D. E. Ullman & A. Moore. A computerized system for acquiring and measuring waveforms from AC electronic insect feeding monitors. XIX International Congress of Entomology, Beijing, 1992. [poster]
- [53] Moore, A. Automatic identification of flying insects using an artificial neural network. Pacific Science Association, Guam, 1990.
- [54] Moore, A. & M. W. Johnson. A decision model for watermelon IPM in Guam. Agricultural Development in the American Pacific Crop Protection Conference, Guam, 1990.
- [55] Cho, J.J., D. E. Ullman, T. L. German, D. Custer & A. Moore. Detection of cucurbit viral diseases in Hawaii. Agricultural Development in the American Pacific Crop Protection Conference, Honolulu, 1989.
- [56] Yudin, L. S., B. E. Tabashnik, W. C. Mitchell, & A. Moore. Predicting tomato spotted wilt incidence in lettuce. International Conference on Tomato Spotted Wilt, Honolulu, 1989.
- [57] Moore, A. & B.E. Tabashnik. Monitoring insect landing activity using a digital balance interfaced with a microcomputer. Entomological Society of America, National Meeting, Boston, MA, 1987.
- [58] Moore, A. Auto-amputation in diamondback moths: a new form of insecticide resistance? Tester Symposium, Honolulu, HI, 1987.
- [59] Moore, A. & B.E. Tabashnik. Behavioral responses of adult diamondback moths to pyrethroid residues. Entomological Society of America, National Meeting, Reno, NA, 1986.
- [60] Moore, A. Automated identification of flying insects by analysis of wingbeat harmonics. Entomological Society of America, Pacific Branch Meeting, Honolulu, HI, 1985. (Awarded second prize in student paper competition)
- [61] Moore, A. & S. H. Gage. Fitting curves to phenology data using an optimization technique. Entomological Society of America, National Meeting, Detroit, MI., 1983.
- [62] Moore, A. & S. H. Gage. The Cooperative Crop Monitoring System as a Potential Source of Data for Pest Phenology Models. Entomological Society of America, North Central Branch Meeting, St. Louis, MO., 1983.