

CURRICULUM VITAE: JAMIE ELLIS

I. ACADEMIC/EMPLOYMENT HISTORY

Name: James D. Ellis, Jr. (Jamie)
Department: Entomology and Nematology, University of Florida
Rank: Associate Professor of Entomology
Academic Appointment: Extension - 70%
Research - 20%
Instruction - 10%

A. PERSONAL DETAILS

Current Work Address: Department of Entomology and Nematology
University of Florida
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B. EDUCATION

PhD - April 2004: Graduated with a PhD in Entomology from Rhodes University, Grahamstown, South Africa

Thesis: The Ecology and Control of Small Hive Beetles (*Aethina tumida* Murray)

Major Professor: Professor Randall Hepburn

B.S. - May 2000: Graduated, with honors in the Department of Biology, with a Bachelor of Science degree in Biology from the University of Georgia, Athens, Georgia, USA

High School - June 1996: Graduated Salutatorian with a College Preparatory degree from Glascock County Consolidated High School, Glascock County, Georgia, USA

C. PROFESSIONAL EMPLOYMENT

1. Associate Professor of Entomology – Department of Entomology and Nematology, University of Florida, (Assistant Professor August 2006 – June 2012; Associate Professor July 2012 – Present).

Job Description: My current appointment at the University of Florida includes a 3-way academic split between extension (70%), research (20%) and instruction (10%) responsibilities. The mission of my laboratory is to improve the health and productivity of honey bee colonies in Florida and globally by investing in research projects focusing on honey bee husbandry, ecology, behavior, and conservation. My team and I also maintain an active research program focused on

native pollinator ecology and conservation. The results from our research programs are communicated to clientele groups via targeted and multi-faceted extension efforts, thereby enhancing the sustainability of beekeeping and native pollinators and the agricultural/ecological communities both support. Finally, undergraduate and graduate students can receive mentoring, training, and instruction in many areas related to honey bee and native pollinator research, thus ensuring a future generation of educators, researchers, conservationists and more. Collectively, my duties represent an integrated attempt at addressing apiculture-related problems via research and instruction efforts that are highlighted through targeted extension programs.

2. Post Doctoral Research Fellow – The University of Georgia, March 2004 – June 2006

Job Description: Conducted research projects on the behavior, ecology, and control of small hive beetles and varroa mites. Also participated in UGA Bee Lab extension efforts, including presenting lectures on honey bees and conducting various workshops at numerous beekeeping programs.

3. Laboratory Technician and Research Assistant - The University of Georgia, Department of Entomology, August 1996 – December 2000

Job Description: Assisted in honey bee research projects conducted by Dr. Keith Delaplane. Jobs included experimental set-up, maintenance, data collection, and project design suggestions. Also presented lectures on honey bees and conducted various workshops at many beekeeping programs.

4. Visiting Graduate Research Student – The University of Georgia, May 2002 – September 2002 and January 2002 – June 2002

Job Description: Conducted research projects concerning small hive beetles as a visiting graduate student at The University of Georgia. These experiments were compliments of similar experiments conducted at Rhodes University in South Africa. Experiments were on small hive beetle biology, behavior, and control.

5. Laboratory Technician – The Medical College of Georgia, Department of Biochemistry and Molecular Biology, June-August of 1996 and 1997

Job Description: Responsibilities included research mice dissection, lab upkeep and maintenance, and auditing data sets.

6. Laboratory Technician – The Medical College of Georgia, Department of Endocrinology, summer (June-August) 1995

Job Description: Worked with computer molecular modeling programs with which models of known hormones (in particular, ecdysones and juvenile hormones) and their binding affinities to various substrates were studied. How these steroid/hormones dock with DNA and the resulting steroid/nucleic acid complexes were identified.

II. RESEARCH EXPERIENCE

A. RESEARCH PROGRAM

Research conducted by members of my team occurs within 5 general categories:

1) Honey Bee Husbandry – investigations into managing honey bees more effectively.

Research in this category focuses on three research emphases: (1) integrated pest management control of honey bee pests/diseases, (2) understanding the proximal causes of colony collapse disorder and (3) honey bee pollination ecology. Projects in these subcategories include developing sustainable solutions for controlling various honey bee pests and diseases, collaborating with several Universities and agencies around the country to investigate the circumstances surrounding collapsing colonies, and investigating the effects of nutritional supplements on honey bee foraging behavior in order to determine factors affecting the pollination ecology of honey bees.

2) Effects of Pesticides on Honey Bees – determining how honey bees are affected by pesticides present in the environment and in their colonies. In this research category, my team and I are attempting to determine how pesticide exposure alone and in tandem with other pesticides or bee pests/diseases affects overall colony health, thus permitting us to understand proximal causes of global declines in managed bee populations.

3) Native Pollinator Conservation and Ecology – determining how to conserve native pollinators through sound ecological principles and understanding. Within this research effort, we are studying the impact of native pollinators on U.S. agriculture and attempting to understand native pollinator ecology as it related to the environment. The results should permit us to develop targeted conservation practices for native pollinators and make recommendations to farmers about how to enhance native pollinator biodiversity on their farms.

4) Africanized Honey Bees – research into the spread and threat of African honey bees in the Americas. Due to the presence of African bees in Florida, we are working to develop and test accurate/efficient diagnostic tools for identifying African and Africanized honey bees. Furthermore, we lead research projects testing the use of managed honey bee colonies to limit the spread and impact of African bees in Florida and the southeastern U.S.

5) Honey Bee Ecology – understanding the relationship between honey bees and their environment. Within this research effort, my lab is trying to determine how complex behavioral interactions develop between honey bees and their nest invaders with a long term goal of developing novel control approaches targeting the invaders. In addition to this, we have joined with collaborators at Rhodes University in Grahamstown, South Africa to study honey bee conservation practices there in an effort to initiate and improve honey bee conservation practices in the U.S.

B. RESEARCH PUBLICATIONS (Refereed – 51, Abstracts/Proceedings - 51)

1. Refereed Journal Articles (51, 1 in review)

1. Dietemann, V., Neumann, P., Ellis, J.D. 2013. Guest Editorial: The COLOSS *BEEBOOK* – Part 1. *Journal of Apicultural Research* 52(1): 4 pp. DOI 10.3896/IBRA.1.52.1.01.
2. James, R.R., Ellis, J.D., Duehl, A. 2013. The potential for using ozone to decrease pesticide residues in honey bee comb. *Agriculture Science*, 1(1): 1-16.
3. Ellis, J.D., Graham, J.R., Mortensen, A. 2013. Standard methods for wax moth research. V. Dietemann; J.D. Ellis, P. Neumann (Eds) *The COLOSS BEEBOOK: standard methods for Apis mellifera research*. *Journal of Apicultural Research*, 52(1): 18 pp. DOI 10.3896/IBRA.1.52.1.10.
4. Dietemann, V., Nazzi, F., Martin, S., Anderson, D., Locke, B., Delaplane, K., Wauquiez, Q., Tannahill, C., Ziegelmann, B., Rosenkranz, P., Ellis, J. 2013. Standard methods for varroa research. V. Dietemann; J.D. Ellis, P. Neumann (Eds) *The COLOSS BEEBOOK: standard methods for Apis mellifera research*. *Journal of Apicultural Research*, 52(1): 54 pp. DOI 10.3896/IBRA.1.52.1.09.
5. Graham, J.R., Carroll, M.J., Teal, P.E.A., Ellis, J.D. 2013. A scientific note on the comparison of airborne volatiles produced by commercial bumble bee (*Bombus impatiens*) and honey bee (*Apis mellifera*) colonies. *Apidologie*, 44:110-112. DOI: 10.1007/s13592-012-0162-9.
6. Williams, G.R., Dietemann, V., Ellis, J.D., Neumann, P. 2012. An update on the COLOSS network and the *BEEBOOK*: standard methodologies for *Apis mellifera* research. *Journal of Apicultural Research*, 51(2): 151-153. DOI 10.3896/IBRA.1.51.01.
7. Gregorc, A., Evans, J.D., Scharf, M., Ellis, J.D. 2012. Gene expression in honey bee (*Apis mellifera*) larvae exposed to pesticides and Varroa mites (*Varroa destructor*). *Journal of Insect Physiology*, 58: 1042-1049. <http://dx.doi.org/10.1016/j.jinsphys.2012.03.015>
8. Vaudo, A., Ellis, J.D., Cambray, G., Hill, M.P. 2012. Honey bee (*Apis mellifera capensis/A. m. scutellata* hybrid) nesting behavior in the Eastern Cape, South Africa. *Insectes Sociaux* 59: 323-331. DOI 10.1007/s00040-012-0223-0
9. Ellis, J.D. 2012. The honey bee crisis. *Outlooks on Pest Management*, 23(1): 35-40.
10. Atkinson, E., Ellis, J.D. 2012. Temperature-dependent clustering behavior of *Aethina tumida* Murray in *Apis mellifera* L. colonies. *Journal of Insect Behavior*, 25: 604-611. DOI 10.1007/s10905-012-9326-8.
11. Vaudo, A., Ellis, J.D., Cambray, G., Hill, M.P. 2012. The effects of land use on honey bee (*Apis mellifera*) population density and colony strength parameters in the Eastern Cape, South Africa. *Journal of Insect Conservation*, 16: 601-611. DOI 10.1007/s10841-011-9445-0.
12. Graham, J., Ellis, J.D., Benda, N.D., Kurtzman, C.P., Boucias, D. 2011. *Kodamaea ohmeri* (Ascomycota: Saccharomycotina) presence in commercial *Bombus impatiens* Cresson and feral *Bombus pennsylvanicus* DeGeer (Hymenoptera: Apidae) colonies. *Journal of Apicultural Research*, 50(3): 218-226.
13. Atkinson, E., Ellis, J.D. 2011. Honey bee, *Apis mellifera* L., confinement behavior toward beetle invaders. *Insectes Sociaux*, 58:495-503. DOI: 10.1007/s00040-011-0169-7.
14. Fakhimzadeh, K., Ellis, J.D., Hayes, G.W. 2011. Physical control of varroa mites (*Varroa destructor*): the effects of various dust materials on varroa mite fall from adult honey bees (*Apis mellifera*) *in vitro*. *Journal of Apicultural Research*, 50(3): 203-211.
15. Graham, J.R., Ellis, J.D., Carroll, M.J., Teal, P.A. 2011. *Aethina tumida* Murray (Coleoptera: Nitidulidae) attraction to volatiles produced by *Apis mellifera* L. (Hymenoptera: Apidae) and

- Bombus impatiens* Cresson (Hymenoptera: Apidae) colonies. *Apidologie*, 3: 326-336, DOI: 10.1007/s13592-011-0017-9.
16. Atkinson, E., Ellis, J.D. 2011. Adaptive behavior of honeybees (*Apis mellifera*) toward beetle invaders exhibiting various levels of colony integration. *Physiological Entomology*, 36:282-289. DOI: 10.1111/j.1365-3032.2010.00774.x.
 17. Gregorc, A., Ellis, J.D. 2011. Cell death localization *in situ* in laboratory reared honey bee (*Apis mellifera* L.) larvae treated with pesticides. *Pesticide Biochemistry and Physiology*, 99: 200-207.
 18. Hunter, W., Ellis, J.D., vanEngelsdorp, D., Hayes, J., Westervelt, D., Glick, E., Williams, M., Sela, I., Maori, E., Pettis, J., Cox-Foster, D., Paldi, N. 2010. RNA interference (RNAi) technology to prevent Israeli Acute Paralysis Virus disease in honey bees (*Apis mellifera*, Hymenoptera: Apidae). *PLoS Pathogens* 6(12): e1001160. doi: 10.1371/journal.ppat.1001160.
 19. Delaplane, K.S., Ellis, J.D., Hood, W.M. 2010. A test for interactions between *Varroa destructor* (Acari: Varroidae) and *Aethina tumida* (Coleoptera: Nitidulidae) in colonies of honey bees (Hymenoptera: Apidae). *Annals of the Entomological Society of America*, 103(5): 711-715.
 20. Ellis, J.D., Evans, J.D., Pettis, J. 2010. Colony losses, managed colony population decline, and Colony Collapse Disorder in the United States. *Journal of Apicultural Research* 49(1): 134-136. *Invited Review Article*.
 21. Ellis, J.D., Spiewok, S., Delaplane, K.S., Buchholz, S., Neumann, P., Tedders, L. 2010. Susceptibility of *Aethina tumida* (Coleoptera: Nitidulidae) larvae and pupae to entomopathogenic nematodes. *Journal of Economic Entomology* 103(1): 1-9.
 22. Ellis, A.M., Hayes, G.W., Ellis, J.D. 2009. The efficacy of dusting honey bee colonies with powdered sugar to reduce varroa mite populations. *Journal of Apicultural Research and Bee World*,48(1): 72-76.
 23. Ellis, A.M., Hayes, J., Ellis, J.D. 2009. The efficacy of small cell foundation as a varroa mite control. *Experimental and Applied Acarology* 47: 311-316.
 24. Ellis, J.D., Delaplane, K.S. 2008. Small hive beetle (*Aethina tumida*) oviposition behavior in sealed brood cells with notes on the removal of the cell contents by European honey bees (*Apis mellifera*). *Journal of Apicultural Research* 47(3): 210-215.
 25. Ellis, J.D., Delaplane, K.S., Cline, A., McHugh, J.V. 2008. The association of multiple sap beetle species (Coleoptera: Nitidulidae) with western honeybee (*Apis mellifera*) colonies in North America. *Journal of Apicultural Research* 47(3): 188-189.
 26. Neumann, P., Ellis, J.D. 2008. The small hive beetle (*Aethina tumida* Murray, Coleoptera: Nitidulidae): distribution, biology and control of an invasive species. *Journal of Apicultural Research* 47(3): 181-183.
 27. Ellis, J.D., Delaplane, K.S. 2007. The effects of three acaricides on the developmental biology of small hive beetles (*Aethina tumida*). *Journal of Apicultural Research* 46(4): 256-259.
 28. Ellis, J.D., Delaplane, K.S. 2006. The effects of habitat type, ApilifeVAR™, and screened bottom boards on small hive beetle (*Aethina tumida*) entry into honey bee (*Apis mellifera*) colonies. *American Bee Journal* 146(5): 537-539.
 29. Ellis, J.D., Hepburn, H.R. 2006. An ecological digest of the small hive beetle (*Aethina tumida*), a symbiont in honey bee colonies (*Apis mellifera*). *Insectes Sociaux* 53: 8-19. *Review Article*.

30. Ellis, J.D. 2005. Reviewing the confinement of small hive beetles (*Aethina tumida*) by western honey bees (*Apis mellifera*). *Bee World* 86(3): 56-62. *Review Article*.
31. Ellis, J.D., Munn, P.A. 2005. The worldwide health status of honey bees. *Bee World* 86(4): 88-101. *Invited Review Article*.
32. Ellis, J.D., Rong, I.H., Hill, M.P., Hepburn, H.R., Elzen, P.J. 2004. The susceptibility of small hive beetle (*Aethina tumida* Murray) pupae to fungal pathogens. *American Bee Journal* 144(6): 486-488.
33. Ellis, J.D., Hepburn, H.R., Elzen, P.J. 2004. Confinement of small hive beetles (*Aethina tumida*) by Cape honeybees (*Apis mellifera capensis*). *Apidologie* 35(4): 389-396.
34. Ellis, J.D., Richards, C.S., Hepburn, H.R., Elzen, P.J. 2004. Hygienic behavior of Cape and European *Apis mellifera* (Hymenoptera: Apidae) toward *Aethina tumida* (Coleoptera: Nitidulidae) eggs oviposited in sealed bee brood. *Annals of the Entomological Society of America* 97(4): 860-864.
35. Ellis, J.D., Hepburn, H.R., Luckmann, B., Elzen, P.J. 2004. The effects of soil type, moisture, and density on pupation success of *Aethina tumida* (Coleoptera: Nitidulidae). *Environmental Entomology* 33(4): 794-798.
36. Ellis, J.D., Hepburn, H.R., Elzen, P.J. 2004. Confinement behavior of cape honey bees (*Apis mellifera capensis* Esch.) in relation to population densities of small hive beetles (*Aethina tumida* Murray). *Journal of Insect Behavior* 17(6): 835-842.
37. Ellis, J.D., Hepburn, H.R., Delaplane, K.S., Neumann, P., Elzen, P.J. 2003. The effects of adult small hive beetles, *Aethina tumida* (Coleoptera: Nitidulidae), on nests and flight activity of Cape and European honey bees (*Apis mellifera*). *Apidologie* 34: 399-408.
38. Ellis, J.D., Holland, A.J., Hepburn, H.R., Neumann, P., Elzen, P.J. 2003. Cape (*Apis mellifera capensis*) and European (*Apis mellifera*) honey bee guard age and duration of guarding small hive beetles (*Aethina tumida*). *Journal of Apicultural Research* 42(3): 32-34.
39. Ellis, J.D., Hepburn, H.R., Ellis, A.M., Elzen, P.J. 2003. Social encapsulation of the small hive beetle (*Aethina tumida* Murray) by European honeybees (*Apis mellifera* L.). *Insectes Sociaux* 50: 286-291.
40. Ellis, J.D., Hepburn, H.R., Ellis, A.M., Elzen, P.J. 2003. Prison construction and guarding behaviour by European honeybees is dependent on inmate small hive beetle density. *Naturwissenschaften* 90: 382-384.
41. Ellis, J.D., Richards, C.S., Hepburn, H.R., Elzen, P.J. 2003. Oviposition by small hive beetles elicits hygienic responses from Cape honeybees. *Naturwissenschaften* 90(11): 532-535.
42. Ellis, J.D., Delaplane, K.S., Hepburn, H.R., Elzen, P.J. 2003. Efficacy of modified hive entrances and a bottom screen device for controlling *Aethina tumida* (Coleoptera: Nitidulidae) infestations in *Apis mellifera* (Hymenoptera: Apidae) colonies. *Journal of Economic Entomology* 96(6): 1647-1652.
43. Ellis, J.D., Hepburn, H.R. 2003. A note on mapping propolis deposits in Cape honey bee (*Apis mellifera capensis*) colonies. *African Entomology* 11(1): 122-124.
44. Ellis, J.D., Hepburn, H.R., Delaplane, K.S., Elzen, P.J. 2003. A scientific note on small hive beetle (*Aethina tumida*) oviposition and behaviour during European (*Apis mellifera*) honey bee clustering and absconding events. *Journal of Apicultural Research* 42(1-2): 47-48.
45. Ellis, J.D., Delaplane, K.S., Hepburn, H.R., Elzen, P.J. 2002. Controlling small hive beetles (*Aethina tumida* Murray) in honey bee (*Apis mellifera*) colonies using a modified hive entrance. *American Bee Journal* 142(4): 288-290.

46. Ellis, J.D., Pirk, C.W.W., Hepburn, H.R., Kastberger, G., Elzen, P.J. 2002. Small hive beetles survive in honeybee prisons by behavioural mimicry. *Naturwissenschaften* 89: 326-328.
 47. Ellis, J.D., Neumann, P., Hepburn, H.R., Elzen, P.J. 2002. Longevity and reproductive success of *Aethina tumida* (Coleoptera: Nitidulidae) fed different natural diets. *Journal of Economic Entomology* 95(5): 902-907.
 48. Ellis, J.D., Delaplane, K.S., Hood, W.M. 2002. Small hive beetle (*Aethina tumida* Murray) weight, gross biometry, and sex proportion at three locations in the southeastern United States. *American Bee Journal* 142(7): 520-522.
 49. Elzen, P.J., Westervelt, D., Causey, D., Ellis, J.D., Hepburn, R., Neumann, P. 2002. Method of application of Tylosin, an antibiotic for American foulbrood control, with effects on small hive beetle (Coleoptera: Nitidulidae) populations. *Journal of Economic Entomology* 95(6): 1119-1122.
 50. Ellis, J.D., Delaplane, K.S., Hood, W.M. 2001. Efficacy of a bottom screen device, Apistan™, and ApilifeVAR™ in controlling *Varroa destructor*. *American Bee Journal* 141(11): 813-816.
 51. Ellis, J.D., Delaplane, K.S. 2001. A scientific note on *Apis mellifera* brood attractiveness to *Varroa destructor* as affected by the chemotherapeutic history of the brood. *Apidologie* 32: 449-450.
- Atkinson, E., Ellis, J.D. 2012. Attraction of multiple beetle species to *Apis mellifera* L. hive odors. *Ecological Entomology*, in review.

2. Abstracts and Proceedings (51)

1. Ellis, J.D., Dietemann, V. 2012. The COLOSS BEEBOOK. Proceedings of the 8th COLOSS Conference, 1-3 September, Halle, Germany, pg. 11.
2. Morais, M.M., Turcatto, A.P., Pereira, R.A., Francoy, T.M., Guidugli-Lazzarini, K., Ellis, J., De Jong, D. 2012. Protein levels and colony development in honey Africanized and European bees fed natural and artificial diets. 5th European Conference of Apidology, 3-7 September 2012, Halle, Germany, pg. 224.
3. Dietemann, V., Williams, G.R., Ellis, J., Neumann, P. 2012. The COLOSS BEEBOOK: facilitating worldwide honeybee research through method standardisation. 5th European Conference of Apidology, 3-7 September 2012, Halle, Germany, pg. 195.
4. Daniels, J., Peters, J., Williams, N., Ullmann, K., Ward, K., Isaacs, R., Tuell, J., May, E., Mason, K., Ellis, J.D., Pence, A., Wagge, D. 2012. Operation Pollinator: evaluation of flowering mixes for attracting insect pollinators in agricultural systems. Annual Meeting of the Entomological Society of America, 11 – 14 November, Knoxville, Tennessee, USA.
5. Ellis, J.D., Dietemann, V., Neumann, P. 2011. The COLOSS BEEBOOK, a manual of honeybee research methods. 7th COLOSS Conference, Belgrade, Serbia, 27-28 August.
6. Ellis, J.D. 2011. Pesticide effects on honey bees: myth or reality. 48th Florida Pesticide Residue Workshop, St. Pete Beach, Florida, 17-20 July, pg. 42.
7. Ellis, J.D. 2011. Mosquito control and beekeepers. 83rd Annual Meeting of the Florida Mosquito Control Association, Jacksonville, Florida, 14-16 November.
8. Aronstein, K., Drummond, F., Eitzer, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, S., Spivak, M., Visscher, K. 2011. The CAP Stationary Apiary Project: Colony strength data

- analysis 2009-2010. Proceedings of the American Bee Research Conference, Galveston, Texas, 6-7 January.
9. Drummond, F., Aronstein, K., Eitzner, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, W., Spivak, M., Visscher, K. 2011. Honey bee colony collapse in stationary hives across the U.S. 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax, Canada, 7-11 August, pg 51.
 10. Drummond, F., Aronstein, K., Eitzner, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, W., Spivak, M., Visscher, K. 2011. Honey bee colony losses in stationary hives across the U.S. 59th Annual Meeting of the Entomological Society of America, Reno, Nevada, 13-16 November.
 11. Gregorc, A., Evans, J.D., Scharf, M., Ellis, J.D. 2011. Subclinical changes in immature honey bees (*Apis mellifera*) exposed to pesticides and *Varroa* (*Varroa destructor*) *in vitro*. Proceedings of the 42nd Apimondia Congress, Buenos Aires, Argentina, 21-25 September.
 12. Medrzycki, P., Ellis, J., Dietemann, V., Neumann, P. 2011. Introduction to the BEEBOOK. 11th International Symposium of the International Commission for Plant-Bee Relationships, Wageningen, The Netherlands, 2-4 November.
 13. Neumann, P., Bouga, M., Blacquiére, T., Costa, C., Crailsheim, K., Dietemann, V., Ellis, J.D., Fauser, A., Elke, G., Gregorc, A., Hatjina, F., Jensen, A.B., LeConte, Y., Meixner, M., Moritz, R.F.A., Nguyen, B.K., Ozkirim, A., Potts, S., van der Zee, R., Williams, G. 2011. COLOSS: coordinating research and development on honey bee colony losses across 55 countries worldwide. Talk at the Plenum of the European Union Parliament, 24 May.
 14. Peters, J., Williams, N., Isaacs, R., Ellis, J., Waage, D., Tuell, J., Pence, A., Ward, K., Wilson, D., Daniels, J. 2011. Operation pollinator: positive action for pollinators. Annual Meeting of the American Chemical Society, Denver, Colorado, 28 August – 1 September.
 15. Pflugfelder, J., Frazier, J.L., Aupinel, P., Bachman, P., Decourtye, A., Scott-Dupree, C., Dinter, A., Ellis, J., Grimm, V., Haung, Z., Nocellis, R.C.F., Thompson, H., Warren-Hicks, B. 2011. 32nd Annual Meeting of SETAC North America, 13-17 November.
 16. Webster, T.C., Ellis, J.D., Calhoun, M.L., Pomper, K., Schneider, K. 2011. *Nosema ceranae* in migratory beekeeping in the United States. 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax, Canada, 7-11 August, pg 60.
 17. Isaacs, R., Tuell, J., Blaauw, B., Williams, N., Ward, K., Ellis, J., Pence, A., Daniels, J. 2011. Integrating flowering plants into intensive fruit and vegetable systems for sustainable crop pollination: challenges and opportunities. X International Symposium of Pollination, Cholula, Mexico, 27-30 June. *Lecture*
 18. Ellis, J.D., Dietemann, V., Neumann, P. 2011. The COLOSS BEEBOOK, a manual of honeybee research methods. *Mellifera*, 11-21/22: 10-11.
 19. Ellis, J.D. 2010. The effects of pollen supplements on honey bee (*Apis mellifera*) colony strength parameters and pollen collection habits in Florida, USA. Proceedings of the IXth Brazilian Bee Research meeting, Ribeirão Preto, SP, Brazil, 28-31 July.
 20. Ellis, J.D., Scharf, M. 2010. Determining LC₅₀ values for pesticides affecting larval honey bees (*Apis mellifera*). Proceedings of the IXth Brazilian Bee Research meeting, Ribeirão Preto, SP, Brazil, 28-31 July.
 21. Atkinson, E.B., Ellis, J.D. 2010. Behavior of honey bees (*Apis mellifera*) and beetle invaders at the nest entrance and within nests. Proceedings of the 58th Entomological Society of America Meeting, San Diego, CA, USA, 12-15 December.

22. Atkinson, E.B., Cline, A.R., Ellis, J.D. 2010. Adaptive leg morphology of the small hive beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae). Proceedings of the 58th Entomological Society of America Meeting, San Diego, CA, USA, 12-15 December.
23. Gregorc, A., Ellis, J.D. 2010. The effects of pesticides on honeybee (*Apis mellifera*) larvae. Proceedings of 6th COLOSS Conference, Ankara, Turkey, 5-6 September.
24. Gregorc, A., Evans, J.D., Ellis, J.D. 2010. Do varroa mites and pesticides synergize to affect bee larvae? Eurbee Conference – 4th European Conference on Apidology, Ankara, Turkey, 7-9 September.
25. Ellis, J.D., Toth, T., Scharf, M. 2009. The effects of imidacloprid and amitraz on immature honeybees (*Apis mellifera*). Proceedings of the 41st Apimondia Congress, Montpellier, France, 16-20 September, p 107.
26. Graham, J.R., Ellis, J.D. 2009. Small hive beetle (*Aethina tumida*) attraction to commercial bumble bee (*Bombus impatiens*) colonies. 41st Apimondia Congress, Montpellier, France, 16-20 September.
27. Ellis, J.D., Evans, J., Hayes, J., Pettis, J., Sammataro, D., vanEngelsdorp, D. 2009. Les pertes de colonies aux États-Unis d'Amérique. Bulletin Technique Apicole 36(2): 86-87.
28. Ellis, J.D. 2009. CCD Research in the United States. Proceedings of the 5th COLOSS Conference, Montpellier, France, September 14-15: 18.
29. Ellis, J.D., Hunter, W., Hayes, J., Sela, I., Maori, E., Yarden, G., Paldi, N., Glick, E., Ben-Chanoch, E. 2009. Preventing bee mortality using RNA interference. Proceedings of the Plant & Animal Genomes XVII Conference, San Diego, CA, January 10-14: W047.
30. Ellis, J.D. 2009. Plight of the honey bee: CCD in the U.S. Proceedings of the 4th COLOSS Conference, Zagreb, Croatia, March 3-4: 6.
31. Ellis, J.D., Evans, J., Hayes, J., Pettis, J., Sammataro, D., vanEngelsdorp, D. 2009. Colony losses in the United States of America. Proceedings of the 4th COLOSS Conference, University of Zagreb, Croatia, March 3-4: 45.
32. Ellis, J.D. 2008. Colony losses in the U.S. Proceedings of the 3rd COLOSS Conference, Queens University, Belfast, UK, September 6-7.
33. Neal, A.S., Skvarch, E.A., Ellis, J.D. 2007. Integrated pest management of *Apis mellifera scutellata* (Africanized honey bee): Bee-proofing a home and school. Proceedings of the Florida State Horticulture Society 120: 370-371.
34. Delaplane, K.S., Ellis, J.D., Berry, J.A. 2007. Profitability of a Varroa IPM system. Proceedings of American Bee Research Conference, Phoenix, Arizona. American Bee Journal 147(5): 438.
35. Delaplane, K.S., Ellis, J.D. 2006. Varroa IPM: Does it work? Does it pay? Proceedings of American Bee Research Conference, Baton Rouge, Louisiana. American Bee Journal 146(5): 446.
36. Ellis, J.D., Delaplane, K.S. 2006. How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and subsequent removal of brood by European honey bees (*Apis mellifera*). Georgia Entomological Society Book of Abstracts, pg. 10.
37. Ellis, J.D., Delaplane, K.S. 2006. The importance of confinement behavior in limiting the number of would-be symbionts in honey bee colonies. Georgia Entomological Society Book of Abstracts, pg. 10.
38. Ellis, J.D., Delaplane, K.S., Hood, W.M. 2005. Progress toward an economic threshold for the SHB/Varroa complex. Proceedings of the American Bee Research Conference, 12-14 January, Reno, Nevada, USA, American Bee Journal 145(5): 430.

39. Ellis, J.D., Delaplane, K.S. 2005. How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and the removal of brood by honey bees (*Apis mellifera*). Abstract for the Georgia Entomological Society.
40. Ellis, J.D. 2005. Trophallactic interactions between honey bees (*Apis mellifera*) and small hive beetles (*Aethina tumida*). Abstract for the Georgia Entomological Society.
41. Ellis, J.D. 2005. Reviewing the confinement of small hive beetles (*Aethina tumida*) by western honey bees (*Apis mellifera*): Life in the penitentiary. Proceedings of the 39th International Apiculture Congress, Apimondia, 21-26 August 2005, Dublin, Ireland.
42. Ellis, J.D. 2005. An ecological examination of the small hive beetles (Coleoptera: Nitidulidae, *Aethina tumida*). Proceedings of the 39th International Apiculture Congress, Apimondia, 21-26 August 2005, Dublin, Ireland.
43. Ellis, J.D., Delaplane, K.S., Hood, W.M. 2005. Determining an economic threshold for the small hive beetle (*Aethina tumida*)/varroa (*Varroa destructor*) pest complex in honey bee colonies of the southeastern United States. Proceedings of the 39th International Apiculture Congress, Apimondia, 21-26 August 2005, Dublin, Ireland.
44. Ellis, J.D., Delaplane, K.S. 2005. How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and subsequent removal of brood by European honey bees (*Apis mellifera*). Proceedings of the 39th International Apiculture Congress, Apimondia, 21-26 August 2005, Dublin, Ireland.
45. Ellis, J.D. 2005. Will small hive beetles (*Aethina tumida*) be a global catastrophe or a regional menace? Proceedings of the 39th International Apiculture Congress, Apimondia, 21-26 August 2005, OIE Symposium on Diagnosis of Bee Diseases, 19-20 August 2005, Dublin, Ireland.
46. Delaplane, K.S., Ellis, J.D. 2002. The small hive beetle (*Aethina tumida*) in the United States: reduced hive entrances are a promising IPM strategy. Proceedings of 6th European Bee Conference, International Bee Research Association, Cardiff, United Kingdom.
47. Ellis, J.D., Pirk, C.W.W., Hepburn, H.R., Elzen, P.J. 2001. African honeybees are duped into feeding their prisoners. #416 Abstracts of the 37th International Apicultural Congress, 28 Oct – 1 November 2001, Durban, South Africa.
48. Ellis, J.D., Neumann, P., Hepburn, H.R., Elzen, P.J. 2001. Reproductive success of small hive beetles (*Aethina tumida* Murray, Coleoptera, Nitidulidae) reared on different diets. #426 Abstracts of the 37th International Apicultural Congress, 28 Oct – 1 November 2001, Durban, South Africa.
49. Ellis, J.D., Delaplane, K.S., Hood, W.M. 2000. The efficacy of a bottom screen device, ApilifeVAR, and Apistan, in controlling parasitic mites in honey bee colonies. in CURO Symposium 2000 Book of Abstracts, The University of Georgia, Athens, Georgia, USA. pg. 34.
50. Ellis, J.D. 1996. The effects of methoprene on *Apis mellifera* (Italian honey bee) larvae: Phase II. in Abstracts of the 47th International Science and Engineering Fair, Tucson, Arizona, USA. pg. 380.
51. Ellis, J.D. 1995. The effects of methoprene on *Apis mellifera* (Italian honey bee) larvae. in Abstracts of the 46th International Science and Engineering Fair, Ontario, Canada. pg. 387.

C. RESEARCH PRESENTATIONS (67 Total) – presenting author underlined when multiple authors listed

1. International Presentations (34)

a. Lectures (26)

1. Ellis, J.D., Dietemann, V. 2012. The COLOSS BEEBOOK. 8th COLOSS Conference, 1-3 September, Halle, Germany. *Invited Plenary Lecture*.
2. Ellis, J.D. 2012. Small hive beetles. 14th Pacific Entomological Conference, 22-23 February, Honolulu, Hawaii. *Invited Lecture*.
3. Ellis, J.D. 2012. Varroa mites. 14th Pacific Entomological Conference, 22-23 February, Honolulu, Hawaii. *Invited Lecture*.
4. Ellis, J.D., Dietemann, V., Neumann, P. 2011. The COLOSS BEEBOOK, a manual of honeybee research methods. 7th COLOSS Conference, Belgrade, Serbia, 27-28 August.
5. Ellis, J.D. 2011. Varroa control in the U.S. BEEDOC Workshop, University of Hohenheim, Stuttgart, Germany, 30 September – 1 October. *Invited Lecture*
6. Ellis, J.D. 2011. *In vitro* rearing of honey bee larvae. SETAC Pellston Conference on Risk Assessment for Pollinators, Pensacola, Florida, 16-21 January. *Invited Lecture*
7. Drummond, F., Aronstein, K., Eitzner, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, W., Spivak, M., Visscher, K. 2011. Honey bee colony collapse in stationary hives across the U.S. 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax Canada, 7-11 August, pg 51.
8. Gregorc, A., Evans, J.D., Scharf, M., Ellis, J.D. 2011. Subclinical changes in immature honey bees (*Apis mellifera*) exposed to pesticides and Varroa (*Varroa destructor*) *in vitro*. Proceedings of the 42nd Apimondia Congress, Buenos Aires, Argentina, 21-25 September.
9. Medrzycki, P., Ellis, J., Dietemann, V., Neumann, P. 2011. Introduction to the BEEBOOK. 11th International Symposium of the International Commission for Plant-Bee Relationships, Wageningen, The Netherlands, 2-4 November.
10. Neumann, P., Bouga, M., Blacquiere, T., Costa, C., Crailsheim, K., Dietemann, V., Ellis, J.D., Fauser, A., Elke, G., Gregorc, A., Hatjina, F., Jensen, A.B., LeConte, Y., Meixner, M., Moritz, R.F.A., Nguyen, B.K., Ozkirim, A., Potts, S., van der Zee, R., Williams, G. 2011. COLOSS: coordinating research and development on honey bee colony losses across 55 countries worldwide. Talk at the Plenum of the European Union Parliament, 24 May.
11. Isaacs, R., Tuell, J., Blaauw, B., Williams, N., Ward, K., Ellis, J., Pence, A., Daniels, J. 2011. Integrating flowering plants into intensive fruit and vegetable systems for sustainable crop pollination: challenges and opportunities. X International Symposium of Pollination, Cholula, Mexico, 27-30 June.
12. Gregorc, A., Evans, J.D., Ellis, J.D. 2010. Do varroa mites and pesticides synergize to affect bee larvae? Eurbee Conference – 4th European Conference on Apidology, Ankara, Turkey, 7-9 September.
13. Gregorc, A., Ellis, J.D. 2010. The effects of pesticides on honeybee (*Apis mellifera*) larvae. 6th COLOSS Conference, Ankara, Turkey, 5-6 September.
14. Ellis, J.D. 2010. The effects of pollen supplements on honey bee (*Apis mellifera*) colony strength parameters and pollen collection habits in Florida, USA. IX Encontro obre Abelhas, Ribeirao Preto, Sao Paulo, Brazil, 28-31 July.
15. Ellis, J.D., Scharf, M. 2010. Determining LC₅₀ values for pesticides affecting larval honey bees (*Apis mellifera*). IX Encontro Sobre Abelhas, Ribeirao Preto, Sao Paulo, Brazil, 28-31 July.

16. Ellis, J.D. 2009. The effects of imidacloprid and amitraz on immature honeybees. 41st Apimondia Congress, Montpellier, France, 16-20 September. (*Invited Plenary Session*).
17. Ellis, J.D. 2009. CCD Research in the United States. 5th COLOSS Conference, Montpellier, France, 14-15 September. (*Invited Plenary Session*).
18. Ellis, J.D., Hunter, W., Hayes, J., Sela, I., Maori, E., Yarden, G., Paldi, N., Glick, E., Ben-Chanoch, E. Preventing bee mortality using RNA interference. Plant and Animal Genomes XVII Conference, San Diego, CA, January 10-14, 2009.
19. Ellis, J.D. 2009. CCD in the U.S. 4th COLOSS meeting, Zagreb, Croatia, 3 March. (*Invited Plenary Session*).
20. Ellis, J.D. 2008. The status of CCD in the U.S. COLOSS meeting, Belfast, Northern Ireland, 6 September (*Invited Plenary Session*).
21. Ellis, J.D., Hunter, W., Hayes, J., Sela, I., Maori, E., Yarden, G., Paldi, N., Glick, E., Ben-Chanoch, E. Preventing bee mortality using RNA interference. Eur-Bee Conference, Belfast, Northern Ireland. September 8-12, 2008.
22. Delaplane, K.S., Ellis, J.D., Berry, J.A. 2007. Profitability of a varroa IPM system. European Honey Bee Health Conference, IBRA, Finland.
23. Ellis, J.D. 2005. Will small hive beetles (*Aethina tumida*) be a global catastrophe or a regional menace? OIE Conference on Diagnosis of Bee Diseases, Dublin, Ireland, 20 August.
24. Ellis, J.D. 2005. Reviewing the confinement of small hive beetles (*Aethina tumida*) by western honey bees (*Apis mellifera*): Life in the Penitentiary. Standing Commission on Bee Pathology at 39th International Apimondia Congress, Dublin, Ireland, 25 August.
25. Ellis, J.D. 2005. An ecological examination of the small hive beetles (Coleoptera: Nitidulidae, *Aethina tumida*). Standing Commission on Bee Pathology at 39th International Apimondia Congress, Dublin, Ireland, 22 August.
26. Ellis, J.D. 2001. The trick honeybees use to stay alive while in prison, Standing Commission on Biology of Honeybees at 37th International Apimondia Congress, Durban, South Africa, 31 October.

b. Posters (8)

1. Morais, M.M., Turcatto, A.P., Pereira, R.A., Franco, T.M., Guidugli-Lazzarini, K., Ellis, J., De Jong, D. 2012. Protein levels and colony development in honey Africanized and European bees fed natural and artificial diets. 5th European Conference of Apidology, 3-7 September 2012, Halle, Germany.
2. Webster, T.C., Ellis, J.D., Calhoun, M.L., Pomper, K., Schneider, K. 2011. *Nosema ceranae* in migratory beekeeping in the United States. 44th Annual Meeting of the Society for Invertebrate Pathology, Halifax, Canada, 7-11 August, pg 60.
3. Peters, J., Williams, N., Ullmann, K., Isaacs, R., Tuell, J., Mason, K., Ellis, J.D., Daniels, J.C., Pence, A.P. 2010. Operation Pollinator: Positive action for pollinators. 2010 International Conference on Pollinators, Pennsylvania State University, July 2010.
4. Graham, J.R., Ellis, J.D. 2009. Small hive beetle (*Aethina tumida*) attraction to commercial bumble bee (*Bombus impatiens*) colonies. 41st Apimondia Congress, Montpellier, France, 16-20 September.
5. Ellis, J.D., Hunter, W., Hayes, J., Sela, I., Maori, E., Yarden, G., Paldi, N., Glick, E., Ben-Chanoch, E. 2008. Preventing bee mortality using RNA interference. Eur-Bee Conference, Belfast, Northern Ireland, September 8-12

6. Ellis, J.D., Delaplane, K.S., Hood, W.M. September 21- 26, 2005. Determining an economic threshold for the small hive beetle (*Aethina tumida*)/varroa (*Varroa destructor*) pest complex in honey bee colonies of the Southeastern United States. Standing Commission on Bee Pathology at 39th International Apimondia Congress, Dublin, Ireland.
7. Ellis, J.D., Delaplane, K.S. September 21-26, 2005. How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and subsequent removal of brood by European honey bees (*Apis mellifera*). Standing Commission on Bee Pathology at 39th International Apimondia Congress, Dublin, Ireland.
8. Ellis, J.D., Neumann, P., Hepburn, H.R., Elzen, P.J. October 30, 2001 – Reproductive success of small hive beetles (*Aethina tumida* Murray, Coleoptera, Nitidulidae) reared on different diets, Standing Commission on Biology of Honeybees at 37th International Apimondia Congress, Durban, South Africa.

2. National Presentations (14)

a. Lectures (10)

1. Aronstein, K., Drummond, F., Eitzer, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, S., Spivak, M., Visscher, K. 2011. The CAP Stationary Apiary Project: Colony strength data analysis 2009-2010. Proceedings of the American Bee Research Conference, Galveston, Texas, 6-7 January. *Lecture*
2. Drummond, F., Aronstein, K., Eitzner, B., Ellis, J., Evans, J., Ostiguy, N., Sheppard, W., Spivak, M., Visscher, K. 2011. Honey bee colony losses in stationary hives across the U.S. 59th Annual Meeting of the Entomological Society of America, Reno, Nevada, 13-16 November. *Lecture*
3. Pflugfelder, J., Frazier, J.L., Aupinel, P., Bachman, P., Decourtye, A., Scott-Dupree, C., Dinter, A., Ellis, J., Grimm, V., Haung, Z., Nocellis, R.C.F., Thompson, H., Warren-Hicks, B. 2011. 32nd Annual Meeting of SETAC North America, 13-17 November. *Lecture*
4. Ellis, J.D. 2010. The effects of pollen supplements on honey bee (*Apis mellifera*) colony strength parameters and pollen collection habits in Florida, USA. IXth Brazilian Bee Research meeting, Ribeirao Preto, SP, Brazil, 28-31 July.
5. Ellis, J.D., Scharf, M. 2010. Determining LC₅₀ values for pesticides affecting larval honey bees (*Apis mellifera*). IXth Brazilian Bee Research meeting, Ribeirao Preto, SP, Brazil, 28-31 July.
6. Atkinson, E.B., Ellis, J.D. 2010. Behavior of honey bees (*Apis mellifera*) and beetle invaders at the nest entrance and within nests. 58th Entomological Society of America Meeting, San Diego, CA, USA, 12-15 December.
7. Ellis, J.D. Pesticide effects on developing honey bees. Apiary Inspectors of America, Gainesville, FL, 4 February 2009. (*Invited*)
8. Ellis, J.D., Delaplane, K.S., Hood, W.M. January 14, 2005 – Progress toward an economic threshold for the SHB/Varroa Complex. American Association of Professional Apiculturists, Reno, Nevada, USA
9. Delaplane, K.S., Ellis, J.D. January 10, 2005 – Varroa IPM: Does it work? Does it pay? American Bee Research Conference, Baton Rouge, Louisiana, USA
10. Ellis, J.D. March 26 – April 2, 2003 – Dance communication in honey bees. Sci-Fest, Grahamstown, South Africa.

b. Posters (4)

1. Daniels, J., Peters, J., Williams, N., Ullmann, K., Ward, K., Isaacs, R., Tuell, J., May, E., Mason, K., Ellis, J.D., Pence, A., Wagge, D. 2012. Operation Pollinator: evaluation of flowering mixes for attracting insect pollinators in agricultural systems. Annual Meeting of the Entomological Society of America, 11 – 14 November, Knoxville, Tennessee, USA.
2. Peters, J., Williams, N., Isaacs, R., Ellis, J., Waage, D., Tuell, J., Pence, A., Ward, K., Wilson, D., Daniels, J. 2011. Operation pollinator: positive action for pollinators. Annual Meeting of the American Chemical Society, Denver, Colorado, 28 August – 1 September.
3. Overmyer, J.P., Peters, J., Shaw, J., Ellis, J., Daniels, J.C., Pence, J.A., Isaacs, F., Tuell, J., Mason, K., Williams, N., Ullmann, K., Waage, D. 2010. Operation Pollinator: Positive action for pollinators. Poster at the 58th Annual Meeting of the Entomological Society of America, San Diego, CA, 12-15 December.
4. Atkinson, E.B., Cline, A.R., Ellis, J.D. 2010. Adaptive leg morphology of the small hive beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae). 58th Entomological Society of America Meeting, San Diego, CA, USA, 12-15 December.

3. State Presentations (9)

1. Ellis, J.D. 2012. Africanized bees in southwest Florida. 17th Annual Southwest Florida Invasive Species Workshop, Ft. Myers, FL, 11 December.
2. Ellis, J.D. 2011. Pesticide effects on honey bees: myth or reality. 48th Florida Pesticide Residue Workshop, St. Pete Beach, Florida, 17-20 July, pg. 42.
3. Ellis, J.D. 2011. Mosquito control and beekeepers. 83rd Annual Meeting of the Florida Mosquito Control Association, Jacksonville, Florida, 14-16 November.
4. Ellis, J.D. 2007. African honey bee biology and behavior. Annual Meeting of the Florida Entomological Society, 7 July, Sarasota, FL, USA.
5. Ellis, J.D., Delaplane, K.S. 2006. The importance of confinement behavior in limiting the number of would-be symbionts in honey bee colonies. Georgia Entomological Society, Jekyll Island, Georgia, USA.
6. Ellis, J.D., Delaplane, K.S. 2006. How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and subsequent removal of brood by European honey bees (*Apis mellifera*). Georgia Entomological Society, Jekyll Island, Georgia, USA.
7. Ellis, J.D. 2005. Trophallactic interactions between honey bees (*Apis mellifera*) and small hive beetles (*Aethina tumida*). Georgia Entomological Society, Athens, Georgia, USA.
8. Ellis, A.M., Ellis, J.D. March 31-April 1 2005 – The confinement of small hive beetles (*Aethina tumida*) by honey bees (*Apis mellifera*). Georgia Entomological Society, Athens, Georgia, USA.
9. Ellis, J.D., Delaplane, K.S. April 1 2005 – How small hive beetle (*Aethina tumida*) density affects beetle oviposition in bee brood and the removal of brood by honey bees (*Apis mellifera*). Georgia Entomological Society, Athens, Georgia, USA.

4. Departmental Seminars (10)

1. Ellis, J.D. 2012. Research activities at the Honey Bee Research and Extension Laboratory. Swiss Bee Research Institute, Agroscope, Leibefeld, Bern, Switzerland, 25 January.
2. Ellis, J.D. 2011. Pesticide effects on developing honey bees: myth or reality. Department of Entomology, Pennsylvania State University, 25 March.
3. Ellis, J.D. 2008. Colony collapse disorder in honey bees. 18 September, University of Florida, Departmental Seminar, Department of Entomology and Nematology, Gainesville, FL, USA.
4. Ellis, J.D. 2008. What's killing our honey bees? 4 April, University of Florida, Departmental Seminar, Belle Glade Research and Education Center, Belle Glade, FL, USA.
5. Ellis, J.D. 2006. Closing in on an international most wanted: Incarceration (and other short stories) of the world's most notorious melittophile. Department of Entomology, Clemson University, Clemson, South Carolina, USA.
6. Ellis, J.D. 2006. Ex Africa Semper Aliquid Novi: Out of Africa, always something new. Department of Entomology and Nematology, University of Florida, Gainesville, Florida, USA.
7. Ellis, J.D. 2006. What you need to know about Africanized honey bees. Department of Entomology and Nematology, University of Florida, Gainesville, Florida, USA.
8. Ellis, J.D. 2005. Closing in on an international most wanted: Incarceration (and other short stories) of the world's most notorious melittophile. Marucci Center for Blueberry and Cranberry Research, Rutgers University, Chatsworth, New Jersey, USA.
9. Ellis, J.D. 2004. Closing in on an international most wanted: Incarceration (and other short stories) of the world's most notorious melittophile. Entomology Departmental Seminar Series, University of Georgia, Athens, Georgia, USA.
10. Ellis, J.D. 2003. Insect Prisons: life in the big house, social confinement of small hive beetles by Cape and European honeybees. Rhodes University, Grahamstown, South Africa

D. GRANTS, CONTRACTS, UNRESTRICTED FREE GIFTS RECEIVED (TOTAL = \$2,375,402.80)

| Year(s) funded | Funding Source | Funding Type | Amount Awarded to Ellis (total grant amount) | Project Title |
|-----------------------|---|---------------------|---|--|
| 2013 | National Honey Board | Grant | \$40,696.94 | Interactive effects of <i>Nosema ssp.</i> infection and chronic pesticide exposure on learning in foraging age honey bees, <i>Apis mellifera</i> |
| 2013 | Florida Department of Agriculture and Consumer Services | Grant | \$11,556.21 | Developing methods of identifying Cape honey bees (<i>Apis mellifera capensis</i>) |

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|-----------|--|------------------------|--|--|
| 2012 | National Fish and Wildlife Foundation (PI) | Grant | \$68,000 (Ellis was CO-PI) | Operation Pollinator |
| 2012 | USDA-SCRI | Grant | \$694,631.20 (\$74,562.30 awarded in 2012) | Developing Sustainable Pollination Strategies for U.S. Specialty Crops |
| 2012 | Florida Department of Agriculture and Consumer Services | Grant | \$42,199.11 | An assessment of honey bee pathogens within the <i>Apis mellifera</i> and non- <i>Apis</i> pollinator communities in North Central Florida |
| 2012 | Florida Department of Agriculture and Consumer Services | Grant | \$37,376.13 | Mitigating the impact of African honey bees: determining how managed European honey bee colonies affect drone congregation areas |
| 2012 | Project Apis m | Grant | \$37,541 | Using RNAi technology to increase the susceptibility of <i>Varroa</i> to miticides |
| 2012 | National Honey Board | Grant | \$49,352 | The impacts of pesticide exposure during larval development on adult worker honey bee (<i>Apis mellifera</i>) foraging performance and general fitness |
| 2012 | University of Florida IFAS Equipment Funds | Award | \$60,207.21 | **Funds awarded for molecular equipment purchase |
| 2011 | National Fish and Wildlife Foundation (PI) | Grant | \$90,556 | Operation Pollinator |
| 2011 | Wells Fargo | unrestricted free gift | \$10,000 | Supporting honey bee research and extension |
| 2011-2012 | Florida Department of Agriculture and Consumer Services (PI) | Grant | \$100,000 | RNAi control of <i>Varroa destructor</i> and <i>Aethina tumida</i> in honey bee colonies |

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|-----------|---|------------------------|---|---|
| 2011-2012 | Walt Disney World | Grant | \$24,000 | Disney managed European honey bee project |
| 2010-2011 | Project Apis m. | Grant | \$23,169 | Varroa mite (<i>Varroa destructor</i>) control using contemporary RNAi technology |
| 2010 | Wachovia/Wells Fargo | unrestricted free gift | \$10,940 | Supporting honey bee research and extension |
| 2010-2011 | Florida Department of Agriculture and Consumer Services | Grant | \$105,000 | RNAi control of <i>Varroa destructor</i> in honey bee colonies |
| 2009 | NOD Apiary Products | Grant | \$28,646 | Determining the efficacy of a new formic acid formulation as a warm weather control for varroa mites (<i>Varroa destructor</i>) in honey bee (<i>Apis mellifera</i>) colonies |
| 2009-2010 | Florida Department of Agriculture and Consumer Services | Grant | \$99,045 | Holistic varroa mite control |
| 2009-2012 | AFRI CAP | Grant | \$42,000 (\$3,100,000 – Univ of GA is lead) | Sustainable solutions to problems affecting the health of managed bees |
| 2009-2011 | National Fish and Wildlife Foundation | Grant | \$159,887 | Operation Pollinator |
| 2009 | UF 4-H Foundation | Grant | \$3,460 | Revitalizing the <i>4-H Bug Club</i> , Florida 4-H's link to the insect world |
| 2009 | National Honey Board | Grant | \$48,106 | Determining if varroa mites (<i>Varroa destructor</i>) and pesticides interact synergistically to harm developing honey bees (<i>Apis mellifera</i>) |

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|-----------|---|------------------------|---|---|
| 2009 | North American Pollinator Protection Campaign | Grant | \$10,000 | The effects of pesticides on immature honey bee (<i>Apis mellifera</i>) development |
| 2008-2009 | AFRI CAP | Grant | \$14,000 (\$1,000,000 – Univ of GA is lead) | Sustainable solutions to problems affecting the health of managed bees |
| 2008 | Koppert Biological Systems | unrestricted free gift | \$2,143 | The influence of nest size on bumble bee foraging activity |
| 2008-2009 | Florida Department of Agriculture and Consumer Services | Grant | \$120,000 | Investigations into varroa mite control |
| 2008-2009 | Florida Department of Agriculture and Consumer Services | Grant | \$29,996 | <u>African Honey Bee Extension and Education</u> program (AFBEE program) Phase III: Educating the public about the threat of African bees |
| 2008 | Exosect | unrestricted free gift | \$5,403 | The efficacy of Exomite Pro as a varroa mite control |
| 2008 | IR-4 Biopesticide Agency | grant | \$5,000 | Controlling Israeli Acute Paralysis Virus using RNAi |
| 2008 | Southeastern Insectaries | grant | \$5,000 | The susceptibility of small hive beetles to entomopathogenic nematodes |
| 2007-2009 | Straughn Farms, Inc. | unrestricted free gift | \$48,240 | The effects of pollen supplements on honey bee (<i>Apis mellifera</i>) colony productivity, strength parameters, and pollination efficiency in commercial blueberry orchards in Florida |

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|-----------|---|------------------------|----------|--|
| 2007-2008 | Florida IPM | grant | \$5,800 | IPM Education for Beekeepers: Battling the Chemocentric Mindset |
| 2007-2008 | University of Florida program enhancement grant | grant | \$10,000 | <u>African Honey Bee Extension and Education (AFBEE) Program</u> – Educating Floridians about the threat of African bees |
| 2007-2008 | Florida Department of Agriculture and Consumer Services | grant | \$63,000 | The sublethal effects of imidacloprid and Amitraz on honey bee (<i>Apis mellifera</i>) susceptibility to varroa mites (<i>Varroa destructor</i>) |
| 2007-2008 | Florida Department of Agriculture and Consumer Services | grant | \$28,293 | Increasing African honey bee awareness via the <u>African Honey Bee Extension and Education program (AFBEE program)</u> |
| 2007-2009 | Southern Region IPM Center | grant | \$62,678 | Building a comprehensive IPM program against small hive beetles |
| 2007-2008 | Florida State Beekeepers Association | unrestricted free gift | \$4,000 | Determining efficacy of small cell foundation as a control for varroa mites |
| 2006-2008 | Florida State Beekeepers Association | unrestricted free gift | \$3,000 | Determining an economic threshold for varroa mites in Florida |
| 2006-2007 | Florida IPM | grant | \$5,300 | Protecting Florida's schools and homes from Africanized honey bees |
| 2006-2008 | Florida Department of Agriculture and Consumer Services | grant | \$23,577 | Developing a comprehensive <u>Africanized honey Bee Extension and Education program (AFBEE program)</u> |

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| 2006-2007 | Florida Department of Agriculture and Consumer Services | grant | \$50,000 | Developing a beekeeping curriculum useful for both Master Beekeeper Programs and for beekeepers needing an outline of best management practices for all levels of beekeeping |
| 2004-2006 | EPA Strategic Agricultural Initiative Grant (grant coauthor) | grant | \$89,564 | Implementing proven varroa IPM practices to reduce pesticide use in beekeeping |
| 2004-2006 | Georgia Beekeepers Association | unrestricted free gift | \$2540 | Biological control of small hive beetles |
| 2002 | Georgia Beekeepers Association | unrestricted free gift | \$500 | Biology and control of small hive beetles |
| 2001 | Georgia Beekeepers Association | unrestricted free gift | \$500 | Biology and control of small hive beetles |
| 2000 | Georgia Beekeepers Association | unrestricted free gift | \$500 | Biology and control of small hive beetles |

III. EXTENSION EXPERIENCE

A. EXTENSION PUBLICATIONS (163)

1. Chapters in Books (7)

1. Ellis, J.D. 2012. Small hive beetle (*Aethina tumida*) contributions to colony losses. In: Honey Bee Colony Health: Challenges and Sustainable Solutions (Sammataro and Yoder, eds.).CRC Press, Taylor & Francis Group, LLC, Boca Raton, Florida, USA. pg. 135 - 144.
2. Ellis, J.D., Ellis, A.M. 2008. African honey bee, Africanized honey bee, or killer bee, *Apis mellifera scutellata* Lepeletier (Hymenoptera: Apidae). in J.L. Capinera (ed) Encyclopedia of Entomology Vol 1, Kluwer Academic Publishers, Dordrecht, The Netherlands. pp 59-66.
3. Ellis, J.D., Ellis, A.M. 2008. Small hive beetle, *Aethina tumida* Murray (Nitidulidae: Coleoptera). in J.L. Capinera (ed) Encyclopedia of Entomology Vol 4, Kluwer Academic Publishers, Dordrecht, The Netherlands. pp 3415-3418.
4. Ellis, J.D. 2008. Bee louse, bee fly, or braulid, *Braula coeca* Nitzsch (Diptera: Braulidae). in J.L. Capinera (ed) Encyclopedia of Entomology Vol 1, Kluwer Academic Publishers, Dordrecht, The Netherlands. pp 417-419.

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 45. Ellis, J.D. 2007. Spring Management Calendar. Melitto Files: Bee News for Bee Lovers. 1(1): 4-5.
 46. Ellis, J.D. 2007. The case of the disappearing bees. Melitto Files: Bee News for Bee Lovers. 1(1): 1.
 47. Ellis, J.D. 2007. Introduction to the Melitto Files. Melitto Files: Bee News for Bee Lovers. 1(1): 7.
 48. O'Malley, M. K., Ellis, J. D. 2007. "Bee"ing prepared for summer. The Clover Voice. Volume 2(6): 1 & 3.
 49. O'Malley, M. K., Ellis, J. D. 2007. Bee-ing prepared for summer. Safety News and Notes. 8(5). <http://www.flagsafe.ufl.edu/snn/snn-07-07.html>.

14. Book Reviews (1)

1. Ellis, J.D. 2010. Review of G. Waldbauer, Fireflies, Honey, and Silk. Florida Entomologist

93(2): 138.

B. EXTENSION PRESENTATIONS (390 total presentations)

*location and number of lectures/workshops in parentheses; state (or equivalent if in another country), regional, national, and international level presentations are in bold font

2012 (36 Total): Gainesville Area bee Club (FL, 1), Tampa Bay Beekeepers Association (FL, 1), High Springs Garden Club (FL, 1), Beekeeping in the FL Panhandle (FL, 2), Tallahassee Science Café (FL, 1), Polk County Landscape Trade Show (FL, 1), Kona Beekeepers Association (HA, 1), Hilo Beekeepers Association (HA, 1), Kauai Beekeepers Association (HA, 1), Honolulu Beekeepers Association (HA, 1), **University of Florida Master Beekeeper Program (FL, 2)**, **University of Florida Bee College (FL, 2)**, Marion County Beekeepers Association (FL, 1), Dadant and Sons Beekeeping Field Day (FL, 1), St. John's County Beekeepers Association (FL, 1), Jacksonville Beekeepers Association (FL, 1), **Florida State Beekeepers Association (FL, 2)**, Columbia County Beekeepers Association (FL, 1), **Honey Bee Technical Council (FL, 1)**, Levy County Beekeepers Association (FL, 1), Lake City Rotary Club (FL, 1), **FDACS Citrus Meeting (FL, 1)**, West Palm Beach Beekeepers Association (FL, 1), Marion County Master Gardeners (FL, 1), Oak Hammock Institute of Learning (FL, 1), **West Virginia Beekeepers Association (WV, 3)**, Worcester Beekeepers Association (MA, 2), Kennedy Space Center (FL, 1), Southwest Florida Invasive Species Workshop (FL, 1)

2011 (42 Total): Gainesville Area Bee Club (FL, 1), Northeast Florida Beekeepers Association (FL, 2), Tampa Bay Beekeepers Association (FL, 1), Putnam County Beekeepers Association (FL, 1), Friends of the 6 Mile Slough (FL, 1), **Kansas Honey Producers Association (KS, 4)**, **Florida Master Beekeeper Program (FL, 2)**, **University of Florida Bee College (FL, 1)**, CSRA Home School Group (GA, 1), Gwinnett County Beekeepers Association (GA, 1), **Southeastern Pest Management Association (FL, 1)**, Piedmont Beekeepers Association (SC, 1), **Queensland Beekeepers Association (Australia, 2)**, **South Australia Honey Producers Association (Australia, 2)**, **Florida Pesticide Residue Workshop (FL, 1)**, West Palm Beach Beekeepers Association (FL, 1), Apalachee Beekeeper Club (FL, 1), Prison Beekeeping Project (FL, 1), Gainesville Rotary Club (FL, 1), Oak Hammock Retirement Community (FL, 1), **Florida Honey Bee Technical Council (FL, 1)**, Alachua County Beekeepers Club (FL, 1), **NASA Executive Safety Forum (FL, 1)**, **Institute of Northern Ireland Beekeepers (Northern Ireland, 2)**, **Florida Mosquito Control Association (FL, 1)**, Melrose Beekeepers Association (FL, 1), Panhandle Beekeeping Short Course (FL, 2), **St. George's University Beekeeping Institute (Grenada, 4)**, **St. George's University African Bee 1st Responder Training (Grenada, 1)**, Gilcrest County 4-H Club (FL, 1)

2010 (38 Total): Jacksonville Beekeepers Association (FL, 2), Cherokee County Beekeepers Association (GA, 1), Metro Atlanta Beekeepers Association (GA, 4), **FL 4-H Training Day (FL, 2)**, **Alberta Beekeepers Association (Edmonton, Canada, 3)**, **New Jersey Beekeepers Association (NJ, 2)**, **Florida Master Beekeeper Program (FL, 3)**, **University of Florida Bee College (FL, 1)**, **British Beekeepers Association (Stoneleigh, England, 3)**, Hampshire Beekeepers Association (England, 2), Devon Beekeepers Association (England, 1), Sommerset Beekeepers Association (England, 1), Yorkshire Beekeepers Association (England, 2), Northeast

Florida Beekeepers Association (FL, 1), **Florida Agricultural Response Training** (FL, 1), **Brazilian Bee Conference** (Ribeiro Preto, Brazil, 2), Alachua County Beekeepers Association (FL, 1), Orange Blossom Beekeepers Association (FL, 1), **Florida State Beekeepers Association** (FL, 2), Western North Carolina Beekeepers Research School (NC, 1), **Indiana State Beekeepers Association** (IN, 2)

2009 (56 Total): West Palm beach Beekeepers Association (FL, 1), UF Ento/Nema Graduate Student Outreach training (FL, 1), Cherokee County Beekeepers Association (GA, 1), Metro Atlanta Beekeepers Association (GA, 3), **Apiary Inspectors of America** (FL, 1), **COLOSS Team** (Zagreb, Croatia, 1), Gulf County Extension (FL, 2), Walton County Master Gardeners (FL, 1), **University of Florida Bee College** (FL, 6), **University of Florida Master Beekeeper Program** (FL, 5), **Florida Strategic Agricultural Response Team** (FL, 1), Bell Middle School Career Day (FL, 6), Collier County Audubon Society (FL, 1), Orange Blossom Beekeepers Association (FL, 1), Putnam County Beekeepers Association (FL, 1), **South Carolina Beekeepers Association** (SC, 4), Escambia County Extension AFBEE Training (FL, 3), **Association of Structural Pesticide Control Officials** (CO, 1), **COLOSS Action** (Montpellier, France, 1), **Apimondia** (Montpellier, France, 1), **Georgia Beekeepers Association** (GA, 3), Live Oak Rotary Club (FL, 1), Panhandle Beekeeping Short Course (FL, 4), Alachua County Beekeepers Association (FL, 1), **North American Pollinator Protection Campaign** (Washington D.C., 1), Collier County Extension AFBEE Training (FL, 3), **Florida State Beekeepers Association** (FL, 1)

2008 (33 Total): Metro Atlanta Beekeepers Association Annual Short Course (GA, 3), Dadant and Sons, Inc. Field Day (FL, 1), **Honey Bee Technical Council** (FL, 2), **Auburn Beekeeping Short Course** (AL, 2), Walton County Master Gardener Training (FL, 2), Escambia Beekeepers Short Course (FL, 1), **Association of American Pesticide Control Officials** (MD, 1), Apalachee Beekeepers Association (FL, 1), Marion County Extension Honey Bee Short Course (FL, 7), **Roe Valley Beekeepers Association** (N. Ireland, UK, 1), Whitney Public Lecture (FL, 1), **Tennessee Beekeepers Association** (TN, 2), Duval County Green Team Agents (FL, 1), **Florida State Beekeepers Association** (FL, 2), Tampa Bay Beekeepers Association (FL, 1), UF/IFAS CALS Tailgator (FL, 1), **Florida Tree and Landscape Short Course** (FL, 1), **UF Bee College** (FL, 1), Jacksonville Chapter of the Florida Pest Management Association (FL, 1), UF Extension Symposium (FL, 1)

2007 (80 Total): **American Beekeeping Federation** (TX, 3), Metro Atlanta Beekeepers Association Annual Short Course (GA, 3), Florida Master Gardeners Training (FL, 1), **Mid-Ulster Beekeepers Association** (Northern Ireland, UK, 1), **Northern Ireland Bee Club** (Northern Ireland, UK, 2), **Mid-Attrim/Randalstown Beekeepers Associations** (Northern Ireland, UK, 1), **Sommerset Beekeepers Association** (England, 1), **Yeovil Beekeepers Association** (England, 1), **Tri County Beekeepers Association** (OH, 2), Green Cove Springs Honey Bee Short Course (FL, 4), North East Florida Beekeepers Association (FL, 1), Prison Beekeepers (FL, 1), Dadant and Sons, Inc. Field Day (FL, 1), West Palm Beach Beekeepers Association (FL, 1), Michiana Beekeepers Association (IN, 4), **Florida Pesticide Review Council** (FL, 1), **Honey Bee Technical Council** (FL, 2), **Florida State Beekeepers Association** (FL, 1), Alachua County Agriculture Tour (FL, 1), **Minnesota Honey Producers Association** (MN, 2), Homestead Beekeeping Short Course (FL, 5), North East Florida Beekeepers

Association (FL, 1), Escarasosa Beekeeping Short Course (FL, 3), **Arkansas State Beekeepers Association** (AR, 4), **Florida State Beekeepers Association** (FL, 7), Tampa Bay Beekeepers Association (FL, 1), **California State Beekeepers Association** (CA, 2), **Illinois State Beekeepers Association** (IL, 2), **Georgia Farm Bureau Association** (GA, 1), Florida Pest Management Association Tallahassee Chapter (FL, 1), Capeloutos Pest Control (FL, 3), **Florida School IPM** (FL, 1), Jacksonville Chapter of the Florida Pest Management Association (FL, 1), **Florida Public Educators Conference** (FL, 1), **Florida Environmental Health Association** (FL, 1), **Southern Plant Diagnostic Network** (FL, 1), Santa Rose County Extension (FL, 2), Walton County Extension (FL, 1), Jackson County Extension (FL, 2), Leon County Extension (FL, 2), Jefferson County Extension (FL, 2), **Florida School Plant Management Association** (FL, 1), **UF Extension Symposium** (FL, 1)

2006 (46 Total): Northeast Florida Beekeepers Association (FL, 3), Tampa Bay Beekeepers Association (FL, 1), **Florida State Beekeepers Association Short Course** (FL, 3), **Florida State Beekeepers Association** (FL, 1), **Mississippi State Beekeepers Association** (MS, 2), **California State Beekeepers Association** (CA, 1), **Iowa State Honey Producers** (IA, 3), FDACS-DPI Apiary Inspectors Training (FL, 1), Alachua County Master Gardener Training (FL, 1), Santa Fe Community College (FL, 1) Alachua County Master Naturalist Program (FL, 1), **Heartland Apicultural Society** (IN, 5), **Eastern Apicultural Society** (GA, 2), **California Queen Breeders Association** (CA, 1), **Georgia Beekeepers Association** (GA, 2), **Virginia Beekeepers Association** (VA, 2), **Kentucky State Beekeepers Association** (KY, 3), Appalachian Technical College Beekeeping Short Course (GA, 1), Coweta County Beekeepers Association Short Course (GA, 2), Eastern Piedmont Beekeepers Association (GA, 1), Mountain Beekeepers Association (GA, 1), Tara Beekeepers Association (GA, 1), Cherokee County Beekeepers Association Short Course (GA, 1), Metro Atlanta Beekeepers Association Short Course (GA, 2), North Georgia Beekeepers Association (GA, 1), Piedmont Beekeepers Association (SC, 1), Foothill Georgia Beekeepers Association (GA, 1), Forsyth County Beekeepers Association (GA, 1)

2005 (14 Total): **Georgia Beekeepers Association** (GA, 4), **Indiana State Beekeepers Association** (IN, 2), Appalachian Technical College Beekeeping Shortcourse (GA, 1), Foothill Georgia Beekeepers Association (GA, 1), Northwest Georgia Beekeepers Association (GA, 1), Lakeland Beekeepers Association (SC, 1), Metro Atlanta Beekeepers Association (GA, 1), Tara Beekeepers Association (GA, 1), Cherokee Beekeepers Association (GA, 1), East Georgia Beekeepers Association (GA, 1)

2004 (15 Total): **American Association of Honey Producers** (TX, 1), **Georgia Beekeepers Association** (GA, 2), **South Carolina Beekeepers Association** (SC, 2), **Alabama Beekeepers Association** (AL, 4), North Georgia Beekeepers Association (GA, 1), Eastern Piedmont Beekeepers Association (GA, 1), Metro Atlanta Beekeepers Association (GA, 1), Foothill Georgia Beekeepers Association (GA, 1), Lakeland Beekeepers Association (SC, 1), East Georgia Beekeepers Association (GA, 1)

2003 (4 Total): **South Africa Sci-Fest** (Grahamstown, South Africa, 1), **Queensland Beekeepers Association** (Chinchilla, Australia, 3)

2002 (7 Total): Georgia Beekeepers Association (GA, 1), East Georgia Beekeepers Association (GA, 1), North Georgia Beekeepers Association (GA, 1), Coastal Empire Beekeepers Association (GA, 1), Tara Beekeepers Association (GA, 1), Metro Atlanta Beekeepers Association (GA, 1), Cherokee Beekeepers Association (GA, 1)

2001 (3 Total): Tara Beekeepers Association (GA, 1), North Georgia Beekeepers Association (GA, 1), Cherokee County Beekeepers Association (GA, 1)

2000 (5 Total): Georgia Beekeepers Association (GA, 2), Warren County Kiwanis Club (GA, 1), Warren County Soil and Water Conservation District (GA, 1), Honey Bee Short Course (GA, 1)

1999 (3 Total): Georgia Beekeepers Association (GA, 2), Eastern Piedmont Beekeepers Association (GA, 1)

1998 (2 Total): Georgia Beekeepers Association (GA, 2)

1997 (4 Total): Georgia Beekeepers Association (GA, 2), Eastern Piedmont Beekeepers Association (GA, 1), Metro-Atlanta Beekeepers Association (GA, 1)

1996 (2 Total): Warren County Kiwanis Club (GA, 1), Warrenton Garden Club (GA, 1)

C. CURRENT EXTENSION PROGRAMS

I have a 70% extension appointment at the University of Florida. Consistent with my job description, I am the state specialist for honey bees and from 2006 – 2011 I was the Department of Entomology and Nematology Outreach Coordinator. I have created 3 extension programs to satisfy my responsibilities in these two major extension areas. With % time spent on each in parentheses, totaling a 70% appointment, they are:

- 1) Partnering with Beekeepers to Improve the Sustainability of Beekeeping (40%)
- 2) The University of Florida AFBEE Program (Arican Bee Extension and Education Program, 20%)
- 3) Insects and Youth: the Department of Entomology and Nematology Outreach Program (10%)

I discuss each program in detail below. However, I present here summary statistics for all programs collectively.

Contacts made with extension clientele while at the University of Florida (through December 2012).

| How Contacted | # Contacted* | # People Who Benefited** |
|----------------------|---------------------|---------------------------------|
| Email | >11,973 | >217,784 |

| | | |
|------------------|-------------------|--------------------|
| Phone | >2,340 | >67,960 |
| Personal Contact | >2,470 | >22,350 |
| TOTAL | >16,783 | >308,094 |

*From my initial employment at the University of Florida in 2006 through December 2009, I recorded the number of contacts I made through my extension programs. *Consequently, the “# of people who benefited” data presented above are extrapolated based on 2006 - 2008 trends and include current data through 2012.*

** At each contact from 2006-2008, I estimated the number of people who were affected by the information I provided. For example, if a homeowner contacted me concerning a problem bee colony they have on their property and they had a family of 5, then I made 1 contact and 5 people benefitted.

Website statistics – These are cumulative statistics for the 3 extension websites I maintain.

| | |
|-------------------------------|-----------------------------------|
| Total Web Pages Viewed | # Downloads From Websites* |
| >2,265,728 | >458,050 |

*This statistic represents the number of documents, presentations, etc., that clientele have downloaded from my websites.

Presentations delivered to extension audiences

| | |
|------------------------|-------------------------------|
| # Presentations | # People in Attendance |
| 390 | >22,575 |

Document, video, and presentation views/downloads

| | |
|--|----------------------------------|
| Document Type | # Times Viewed/Downloaded |
| EDIS documents* | >134,322 |
| Featured Creature and Pest Alert Documents | > 97,824 |
| Youtube educational videos | > 217,437 |
| Newspaper/TV/Magazine/Radio Interviews** | > 30 million |

*EDIS = Electronic Data Information Source – UF/IFAS peer reviewed extension publications.

**As part of newspaper/TV/Magazine/Radio interviews I have given, I have appeared on *Good Morning America*, in the *New York Times*, *CNN*, *National Public Radio* and other national/international news outlets. I have given 100+ newspaper/magazine interviews on many honey bee topics ranging from African honey bees to colony collapse disorder. Millions of people have been reached through my newspaper/magazine interviews.

Evaluations by extension audiences, on a scale of 5 (excellent) to 1 (poor). On average, my lectures/workshops average a 4.8 rating. Mean scores include >1000 evaluations each for lectures and workshops given over a 17 year period. Specific scores and a list of lectures/workshops given are available upon request.

1. Extension Program 1: Partnering With Beekeepers to Improve the Sustainability of

Beekeeping, 20006 - Present

a. Situation - Honey bees contribute over 14 billion USD to the U.S. agriculture industry. Furthermore, honey bees pollinate the nation's crops, being directly responsible for as much as 1/3 of the world's food production through their pollination efforts. There are over 2,800 registered beekeepers in the state of Florida and they manage ~375,000 honey bee colonies, roughly 15% of the nation's total number of colonies. Florida honey bee colonies are shipped all over the U.S. to provide pollination services for the nation's crops. In Florida alone, the blueberry, strawberry, melon and other fruit/vegetable industries rely heavily on the pollination services provided by honey bee colonies managed in the state. Florida and U.S. agriculture is built on the back of these tiny pollinators, pollinators that face a number of serious problems and whose populations are declining steadily.

Globally and locally, the beekeeping industry is threatened by honey bee pests and pathogens, dismal profit margins, outdated management techniques, widespread chemical dependency, and poor genetic variability in managed colonies. North America in general and Florida specifically are especially hard-hit as the number of managed honey bee colonies dwindles yearly while bee-dependent crop acreage increases steadily. Beekeeper response to this dilemma has been alarming: many have abandoned beekeeping altogether, much to the detriment of a national agriculture industry reliant on pollinating honey bees. More than ever, beekeepers (the target audience of this program) need relevant research and effective educational programs so that beekeeping can become sustainable.

b. Objectives - Through this extension program, I seek to help beekeepers improve the sustainability of beekeeping by:

- 1) conducting basic and applied research that address major issues affecting the sustainability of beekeeping,
- 2) recruiting and training new beekeepers, and
- 3) providing cutting-edge training for and improving the retention rate of "seasoned" beekeepers.

I address these objectives by investigating ways of effectively managing bee pests/pathogens, offering workshops and other training symposia for beekeepers, developing slides/videos/other publications for beekeeper use, and serving as a conduit of information for beekeepers of all expertise.

c. Educational Methods

i. Applied Research Addressing the Sustainability of Beekeeping

Research is important to any extension or instruction effort. Furthermore, applied research ultimately should benefit an end user. Despite the many avenues of applied research that can be undertaken with honey bees, one cannot divorce himself from basic questions surrounding the bee. With that said, members of my lab and I address both basic and applied research topics associated with honey bees in an attempt to address clientele concerns and work toward long-term solutions for sustainable bee management.

ii. UF Master Beekeeper Program

The UF Master Beekeeping program is a program whereby beekeepers are taught (via lectures and workshops), tested, and certified according to various levels of achievement. In this program a beekeeper begins at the Apprentice level where he/she is expected to know the basic biology of a honey bee colony and the equipment beekeepers use to manage a colony. The next level is the Advanced level where the beekeeper is educated in honey bee morphology, caste, life history, honey production, disease control, etc. The Advanced Beekeeper also is expected to accumulate social service credits (where he/she may write an article for a national honey bee journal, participate in university research projects, teach a school class about honey bees, etc.) before they can become a Master Beekeeper (the third level). Once a participant becomes a Master Beekeeper, he/she is expected to know advanced honey bee biology, life history, etc. The fourth and highest level (the Master Craftsman level) is attainable to those Master Beekeepers who pass a written exam and accumulate more social service credits. Details can be found at: <http://entnemdept.ifas.ufl.edu/honeybee/>.

iii. Welsh Honey Judge Program

In 2008, I partnered with Robert Brewer (Extension Agent in Towns County, GA) and Michael Young (Senior Welsh Honey Judge, Northern Ireland) to create the Florida Welsh Honey Judge Program. Welsh Honey Judge training is the most stringent training for would-be honey judges in the world. Training to be a Welsh Honey Judge requires participants to: (a) attend a training session with a Welsh Honey Judge, (b) help a senior Welsh Honey Judge steward (or judge) a honey show, (c) judge a honey show on their own, and (d) complete an oral exam administered by a senior Welsh Honey Judge. Through this program, beekeepers are taught how to add value to their hive products and judge the quality of such products.

iv. UF Bee College

The University of Florida Bee College opened its doors in March 2008 with 200 beekeepers attending. It is Florida's (and perhaps the southeast's) premier regional beekeeping education program at which lectures and workshops are conducted by some of the top honey bee researchers in the U.S. This program is useful for beekeepers (regardless of expertise), pest control operators, master gardeners, county agents, etc. The UF Bee College is designed to help beginner and experienced beekeepers. It is designed in such a way to teach people with limited/no bee knowledge how to keep bees. Beginner classes include: bee biology, yearly colony management, bee pests/diseases, rules for keeping bees in Florida, clipping/marketing queens, honey extraction, etc. For the more experienced, we include classes on the latest information on colony collapse disorder, fundamentals of pollination ecology, how to diagnosis bee diseases in one's own colonies (using microscopes), bee nutrition, etc. Also included in the Bee College is the annual UF Bee College Honey Show as well as training for Welsh Honey Judging Certification (the most comprehensive program in the world). Details about the UF Bee College can be found at: <http://entnemdept.ifas.ufl.edu/honeybee/index.shtml>.

v. *Melitto Files*

I supervise, edit, and fund the *Melitto Files: bee news for bee lovers*, a beekeeping newsletter for Florida Beekeepers. The *Melitto Files* is a joint publication between UF Extension and the Florida Department of Agriculture and Consumer Services (FDACS). It is published quarterly and includes articles on current topics in beekeeping. To date, Volume 1 (2007) issues 1-3, Volume 2 (2008) issues 1-4, Volume 3 (2009) issues 1-4, Volume 4 (2010) issues 1-4, Volume 5 (2011) issues 1-4, and Volume 6 (2012) issues 1-4 have been published. The newsletter is sent to all Florida beekeepers registered with FDACS and most U.S. bee scientists and apiary inspectors.

vi. Source of Information for Florida, U.S., and Global Beekeepers (presentations, publications, websites, videos, etc.)

I serve as a source of information for state, national, and international beekeepers. Not only do I answer phone calls/emails regularly from my clientele as well as make site visits, I also produce educational documents, websites, training videos, presentations, etc. to facilitate knowledge transfer.

2. Extension Program 2: The University of Florida AFBEE Program (African Bee Extension and Education Program), 2006 - Present

a. Situation - With the warm and humid climate found throughout much of Florida, a wide range of insects can and have become pests to residents. These include African honey bees (AHBs). African honeybees were introduced into Brazil in 1957 in an attempt to produce a honey bee that would be better-suited to the tropical climate found in Brazil. Following this, the bee became established in Brazil, expanding its range through South and Central America and into North America. In 1990 they were found in Texas followed closely by other southwestern states. In 2001, they were found in Florida. Since their introduction into Florida, over 80% of sampled wild bee colonies in southern Florida have been shown to be Africanized.

African bees, also known as “killer” bees, defend their colonies viciously, attacking anything that provokes the nest. They are the same species, although a different subspecies, as the honey bees that Florida and U.S. beekeepers manage. This has led to misidentification of the bee, with managed bees bearing much of the negative publicity. Consequently, the presence of African bees in Florida is a threat to the Florida beekeeping industry. The general public typically does not recognize the threat of African bees to the beekeeping industry but rather to public safety. This is a warranted fear since African bees have attacked and killed horses, dogs, cats, sheep goats, chickens, etc. in Florida. They also have attacked numerous Florida citizens. As such, it is imperative that Florida citizens be made aware of the danger of African honey bees, while fostering a respect for managed European honey bees.

b. Objectives - Through this extension program, I seek to:

- 1) educate Florida citizens about the spread and threat of African bees,
- 2) provide Africanized honey bee-related material and training to Florida clientele groups,
- 3) train Pest Control Operators how to eradicate and safely remove nesting honey bee colonies, and
- 4) help protect the lives of Florida citizens.

c. Educational Methods

My primary attempt to address the presence of African honey bees in Florida has been my creation of the AFBEE (African Bee Extension and Education) Program. Recognizing the need for an effective, targeted educational program, I collaborated with Jerry Hayes (formerly of the Florida Department of Agriculture and Consumer Services) and Dr. William Kern (UF/IFAS) to create the AFBEE program. Together, we identified fourteen Florida clientele groups as target audiences needing to hear an AHB message catered specifically to their needs. These groups include: 1) pest control operators, 2) tourists, 3) first responders (emergency medical technicians, firefighters, etc.), 4) schools (children, teachers, and administrators), 5) county agents, 6) veterinarians, 7) medical personnel (doctors, nurses), 8) individuals participating in outdoor recreational activities (including boaters, hunters, fishers, etc.), 9) outdoor workers (right-of-way, construction, etc.), 10) rangers and people visiting parks and campgrounds, 11) individuals from the marketing bureau, 12) 4-H (youth and leaders), 13) beekeepers, and 14) those speaking minority languages. Members of AFBEE are creating a standard set of training curricula catered uniquely to each group's specific needs. These curricula include (1) PowerPoint presentations highlighting AHB information specific to a given group, (2) computer-based training modules teaching what one must do to protect themselves and others from AHB attacks, and (3) reproducible training/education materials (fliers, pamphlets, EDIS documents, magnets, etc.) that can be given to each group. The clearing house for all AFBEE program related material is our website: <http://entnemdept.ifas.ufl.edu/afbee/>.

i. AFBEE Website

In general, the AFBEE program is about creating educational materials and using those materials to reach the 14 target clientele groups. My colleagues and I decided that we needed to create a website that would serve as the clearing house for all information generated through this program. In response, we created <http://entnemdept.ifas.ufl.edu/afbee/> and purchased the domain name "AFBEE.com" to assist consumer memory of the site address. On this site, my colleagues and I have loaded information on what to do if you find honey bees nesting on your property, a list of Pest Control Operators who are trained to deal specifically with stinging insects (courtesy of the Florida Department of Agriculture and Consumer Services), training videos, presentations, EDIS documents, etc., all created specifically for the 14 clientele groups.

ii. Training Pest Control Operators (PCOs) how to Safely Eradicate and Remove Wild Honey Bee Colonies

Early in the development of the AFBEE program, my colleagues and I decided that PCOs and First/Emergency Responders were the first clientele groups who needed to be trained how to safely and effectively deal with African honey bees (and other stinging insects). Consequently, we have a formal PCO training program. PCOs who complete the training that we offer through the AFBEE program are added to a master list of PCOs trained to deal with stinging insects. The list is maintained by the Florida Department of Agriculture and Consumer Services. When Florida citizens call county offices, state offices, etc., to report a nesting honey bee colony, those receiving the calls now have a resource they can use to address the situation appropriately. The

State of Florida has a policy with which they recommend any nesting bee colony found in close proximity to humans be eradicated. Because of this, PCOs provide the quickest, safest way to accomplish colony eradication and removal. They are the state's second line of defense against African bee attacks (beekeepers are the first line). Through this educational method, colleagues and I try to prepare Florida PCOs for this responsibility.

iii. First Responder Training

Similar to Florida's need to have trained PCOs is its need to have trained first/emergency responders. No educational effort can reach all of the intended clientele. As such, it is not possible to tell every Florida citizen about the spread and threat of African bees. Therefore, it is crucial that first/emergency responders know how to handle a stinging incident appropriately. This is true not only if a person is stung by hundreds or thousands of bees (toxic exposure) but also if the person is allergic to bee stings (allergic response). To that end, training first responders is a priority of our program.

iv. Educate the General Public how to Respond to Bee Attacks

Through the AFBEE program, we train the general public about African bees, how to respond to an attack, how to prevent an attack, what to do if they find a nesting colony of bees, how to bee proof their property, etc.

v. Beekeeper Education

Beekeepers are the first line of defense against African bees. They manage docile races of bees that, through bee mating behavior, can minimize the spread and impact of African bees. Despite this, honey bees kept by beekeepers can be blamed for the stinging events, often resulting in city zoning ordinances banning beekeeping. Furthermore, colleagues from the Florida Department of Agriculture and Consumer Services have drafted a series of Best Management Practices for managing European honey bee colonies in Florida. Collectively, beekeeper training plays an important role in the success of the AFBEE program.

vi. Source of African Honey Bee Information for Florida Citizens

Because of the AFBEE program, I am contacted regularly by county faculty, the general public, Pest Control Operators, etc., regarding African bee-related issues. Not only do I answer phone calls/emails regularly from my clientele as well as make site visits, I also produce educational documents, websites, training videos, presentations, etc., to facilitate knowledge transfer.

3. Extension Program 3: Insects and Youth: the Department of Entomology and Nematology Outreach Program, 2006 - 2011

a. Situation - The need to promote interest and achievement in science is critical for Florida students. Science recently has been added to the list of subjects being tested annually by the Florida Department of Education's Florida Comprehensive Achievement Test (FCAT), and it is

newly mandated that science be taught in grades K-8. Inquiry-based science learning opportunities for adolescents are needed to facilitate environmental engagement as well as complement and address Florida (Florida Department of Education) and national (National Research Council) science education standards. Insects are particularly popular with youth, and therefore can act as a catalyst to help promote adolescents' interest, knowledge, and understanding of science, mathematics, technology, and the methods of science by providing hands-on, collaborative learning and research experiences.

Insects are among the most abundant organisms on the planet yet few people see more in insects than the “tiny ants, disgusting cockroaches, and stinging wasps” so often encountered around the home. As Florida's population grows and becomes increasingly urban, citizens (especially youth) are in danger of neglecting the fascinating world of insects altogether. This is surprising considering the importance of insects to life in general and the fact that insects can be used to introduce youth, particularly 4-Hers, to a suite of environmental, agricultural, social, and scientific topics in a holistic and interdisciplinary manner. The Entomology and Nematology Department at the University of Florida leads the charge in introducing Florida youth to our state's insect inhabitants. Through this extension program, we serve as the state's primary generator of various entomologically based outreach materials and programs. The materials and programs can be used by a variety of Florida educators to introduce Florida youth to various insects and insect topics.

b. Objectives - The central purpose of this program is to:

- 1) educate Florida youth about the behavior, biology, diversity, and importance of insects and
- 2) provide youth educators with insect-related teaching curricula.

Ultimately, the goal of this program is to increase youth participation/interest in general entomology, connection to nature, environmental stewardship, and agricultural education.

c. Educational Methods

Within the auspices of this program, our department engages in outreach activities such as state fair displays, creation of entomologically based educational curricula, school demonstrations, etc. Our primary target audience is youth. However, we also target school teachers, county faculty and youth volunteers.

i. Department of Entomology and Nematology Outreach Committee

In 2008, I initiated the creation of the Department of Entomology and Nematology Outreach Committee. The committee determines the direction of the outreach program based on clientele need. Furthermore, the committee coordinates the development of youth-based curricula, identifies new educational events in which the outreach program can participate, and leads a publicity/advertisement campaign that serves to promote the activities of the outreach program. Another benefit of the committee is that we provide training to more diverse audiences as well as apply for extramural support for the program.

ii. 4-H Bug Club Website

In 1998, the UF Department of Entomology and Nematology initiated the *Florida 4-H Bug Club* (http://entnemdept.ifas.ufl.edu/bug_club/index.shtml). Upon its creation, the website quickly galvanized Florida 4-Hers and county faculty, culminating in an increased interest in entomology. Unfortunately, the website and its many offerings became obsolete and unmaintained through the attrition of those managing the site. This has been an unfortunate problem for two reasons: (1) the website and its content are in high demand from county faculty, school teachers, and youth and (2) a wealth of insect-related educational material has been created in recent years and this material needs to get into the hands of the end users!

In 2008, the outreach committee, based on feedback from county faculty, determined that a substantial revision of the website was necessary. With funding from the Florida 4-H foundation, the committee overhauled the website. Through the website, we are now able to (1) offer interactive educational tools for youth, (2) provide curricula for teachers, 4-H leaders, parents, etc., (3) inform youth and youth workers of upcoming entomology events, and (4) promote entomology among Florida youth in general.

iii. Delivery of Entomology-Themed Presentations, Workshops, Fair Exhibits, etc.

In addition to creating entomology curricula and vehicles, like the 4-H Bug Club website, through which we can channel information, my colleagues and I also directly deliver entomology-themed presentations, workshops, fair exhibits, etc., to youth and youth workers. The largest education efforts come primarily from the following two avenues:

1) Florida State Fair – The Department of Entomology and Nematology creates and maintains a booth at the Florida State Fair. The topic changes yearly but some recent themes have included “Bug Bites”, “Forensic Entomology”, and “Antlion Safari”. We engage UF Entomology and Nematology faculty and graduate students in this event.

2) UF Entomology and Nematology Graduate Student Outreach Coordinator – The Department of Entomology and Nematology provides a graduate assistantship for a student outreach coordinator. This graduate student organizes many of the departmental tours, presentations, etc., that we offer to the general public. The student, if unable to fulfill a presentation request himself, solicits and trains other student volunteers who will deliver the extension program.

iv. Production of Youth Entomology Curricula

Through the Department of Entomology and Nematology Outreach Program, members of the committee and I create educational materials, curricula, interactive games, etc., for youth and youth workers. The program has at its disposal first-class entomology curricula including *Project Butterfly Wings* (print and web-based curricula), *The ABCs of Entomology* (print and CD curricula), and national 4-H entomology project guides (print curricula).

IV. INSTRUCTIONAL ACTIVITIES

A. TEACHING EXPERIENCE

| Year and Quarter/Semester | Course | Enrollment |
|------------------------------------|---|------------|
| ¹ Spring 2013 | <ul style="list-style-type: none"> • Beekeeping • Apiculture | 31 1 |
| ¹ Summer 2012 | <ul style="list-style-type: none"> • Beekeeping • Apiculture | 14 3 |
| ¹ Spring 2012 | <ul style="list-style-type: none"> • Beekeeping • Apiculture | 42 8 |
| ¹ Summer 2011 | <ul style="list-style-type: none"> • Beekeeping • Apiculture | 17 3 |
| ² Fall 2009 | <ul style="list-style-type: none"> • Graduate survey of Apiculture | 1 |
| ³ Fall 2008 | <ul style="list-style-type: none"> • Supervise undergraduate independent studies in Apiculture | 1 |
| ⁴ Fall 2007-present | <ul style="list-style-type: none"> • Supervise undergraduate research projects | 3 |
| ⁵ Spring 2007 – present | <ul style="list-style-type: none"> • Graduate research problems in entomology | 8 |
| ⁶ Fall 2006, - present | <ul style="list-style-type: none"> • Apiculture lab, guest lecturer for Principles of Entomology, University of Florida | >1000 |
| ⁷ Summer 2003 | <ul style="list-style-type: none"> • Social Insect Behavior | 17 |
| ⁷ Winter 2002 | <ul style="list-style-type: none"> • 2nd Year Entomology- Apiculture, Rhodes University, South Africa | 10 |
| ⁸ Springs 1997, 1999 | <ul style="list-style-type: none"> • Entomology 2500 Laboratory Assistant, Honey bees and beekeeping, The University of Georgia, USA | 27 |

¹University of Florida: I developed and teach a course that is taught as a split-level course. The undergraduate course is ENY 4573: Beekeeping while the graduate course is ENY 5572: Apiculture. The 3-credit course is completely distance-based and is taught in spring and summer of every year. Course Description: The biology of honey bees and the craft of apiculture are examined by exploring the natural history, biogeography and ecology of honey bees. Honey bee anatomy, physiology, colony social structure, pests/diseases, pollination ecology, management and current topics in beekeeping are discussed in the course.

²University of Florida: Beginning fall semester 2009 and planned for miscellaneous semesters thereafter. Supervised graduate student seminar in Graduate Survey of Apiculture. The purpose of this course is to learn about and discuss current topics in apiculture. During the semester, students write a short review paper on a current topic in apiculture and present a 30 minute presentation on the topic. They review current topics in apiculture by attending weekly meetings with me and spending time with members of the Honey Bee Research and Extension Laboratory.

³University of Florida: Beginning fall semester 2008 and planned for miscellaneous semesters thereafter. Supervised undergraduate student independent studies in apiculture: this course is designed to introduce individual students to honey bees and beekeeping. Students taking this course are taught the biology of honey bees, the history and theory of beekeeping, the importance of pollinators in general, and are introduced to apicultural research. Further, students are given the opportunity through hands on laboratories to construct and populate their own bee colony and manage that colony through the semester. While doing the latter, students learn how to manage honey bee colonies and are introduced to the world of production beekeeping.

⁴University of Florida: Beginning fall semester 2007 and miscellaneous semesters thereafter: supervised undergraduate student research projects. In this course, I introduce undergraduate (and occasionally graduate) students to the scientific method and cultivate their critical thinking skills. For 2-3 weeks, students are introduced to a variety of research topics related to honey bees by spending time with graduate students in my laboratory and colleagues at the Florida Department of Agriculture and Consumer Services and the USDA-ARS Center for Medical and Veterinary Entomology. Following this experience, the student identifies a gap in knowledge (researchable topic), does a literature review of the topic, develops testable hypotheses, designs and conducts an experiment to test the hypotheses, collects and analyzes data, and writes a research manuscript that may be submitted later for publication in a peer-reviewed scientific journal.

⁵University of Florida: Beginning spring semester 2007 and miscellaneous semesters thereafter. Supervised graduate student “Problems in Entomology” course. Taught graduate students research principles, how to conduct independent research, and the art of publishing scientific manuscripts.

⁶University of Florida: Beginning fall semester 2006 and every semester thereafter. Taught ‘Principles of Entomology’ Apiculture lab.

⁷Rhodes University, South Africa:

2002 - Taught honey bee classes to 2nd year entomology students. Class subjects included honey bee biology, honey bee subspecies, management for honey production, honey bee diseases, and pollination. Also conducted on-site labs where students were taken into honey bee apiaries and colonies.

2003 – Taught a course on Insect Behavior for 2nd year Entomology students. The course focused on social insect behavior, with a special emphasis on honey bees, and concluded with a focus on applied apiculture.

⁸The University of Georgia: Laboratory assistant to the undergraduate course Bees and Beekeeping. Helped with weekly lab sessions. Assisted students, set up experiments, and organized colonies and other materials to be used during the lab.

B. COURSES TAUGHT

ENY 4905 Beekeeping / ENY 6934 Apiculture

Offered: Summer 2011, Elective/General Education

Course Description: The biology of honey bees and the craft of apiculture are examined by exploring the natural history, biogeography and ecology of honey bees. Honey bee anatomy,

physiology, colony social structure, pests/diseases, pollination ecology, management and current topics in beekeeping are discussed in the course.

Course Objectives:

1. Compare the natural histories of honey bees with those of other bees, emphasizing the development of sociality in bee hymenoptera.
2. Examine the diversity and biogeography of honey bees.
3. Discover the intricacies of honey bee biology, anatomy, physiology.
4. Determine the contributions of nest structure, eusocial behavior, and colony superorganismic traits to the success of honey bees globally.
5. Appraise the history, development, and practice of apiculture.
6. Associate apiculture with production agriculture, ecosystem health, and human success.
7. Synthesize transcending topics (such as parasitology, invasive species biology, IPM, etc.) using apiculture as a model.
8. Demonstrate the ability to disseminate apicultural information through university extension outlets.

Topics Covered:

Lecture 1. An Introduction to the Hymenopterans and Bees
Lecture 2. Sociality and Honey Bees
Lecture 3. Biogeography of Honey Bees
Lecture 4. Honey Bee Biology
Lecture 5. Honey Bee Anatomy
Lecture 6. Physiology and Pheromonal Communication
Lecture 7. Nutrition and Immune Response
Lecture 8: Honey Bee Colonies as a Superorganism
Lecture 9: The History of Beekeeping
Lecture 10: Beekeeping Equipment
Lecture 11: Getting Started in Beekeeping
Lecture 12: Pests and Predators of Honey Bees
Lecture 13: Pathogens and Diseases of Honey Bees
Lecture 14: Integrated Pest Management in Apiculture
Lecture 15: Yearly Beekeeping Management I: April – August
Lecture 16. Yearly Beekeeping Management II: September – March
Lecture 17. History and Theory of Honey Production
Lecture 18. Other Products of the Hive
Lecture 19. Bee Botany
Lecture 20. Pollination Ecology
Lecture 21. Queen and Packaged Bee Production
Lecture 22. African Honey Bees
Lecture 23. Colony Collapse Disorder (CCD)
Lecture 24. Research and Extension Efforts in Apiculture

C. TEACHING EVALUATIONS

| Course Titles: ENY 4573 Beekeeping; ENY 5572 Apiculture Required Courses (yes/no): No Scale Used: High = 5, Low = 1 | | | | | | | |
|--|-------------|----------------|-----------------|-------------------|--------|-----------------|--------|
| Course | Term | # of students* | Required yes/no | Candidate Overall | | College Overall | |
| | | | | Instructor | Course | Instructor | Course |
| ENY 4573 | Spring 2012 | 42 (28) | No | 4.79 | 4.59 | 4.31 | 4.29 |
| ENY 5572 | Spring 2012 | 8 (8) | No | 4.63 | 4.50 | 4.31 | 4.19 |
| ENY 4573 | Summer 2012 | 14 (8) | No | 4.5 | 4.38 | 4.33 | 4.22 |
| ENY 5572 | Summer 2012 | 3 (2) | No | 5.0 | 5.0 | 4.33 | 4.22 |
| ENY 4905 | Summer 2011 | 17 (8) | No | 4.75 | 4.63 | 4.35 | *** |
| ENY 6934 | Summer 2011 | 5 (2) | No | 5.00 | 4.50 | 4.35 | *** |

*Number of students taking the class, with number of students completing an evaluation in parentheses.

Teaching evaluations by undergraduate students at Rhodes University. These evaluations were given after teaching the course "Insect Behavior" in 2003. The reported averages are from 17 students taking the course. 5 = excellent (or high or strongly agree); 4 = Very Good (or agree); 3 = Good (or moderate or no opinion); 2 = Poor (or disagree); 1 = Very Poor (or easy or strongly disagree).

| Criteria | Mean Score Received |
|---|---------------------|
| The Lecturer gives audible lectures | 4.8 |
| The Lectures gives structured, organized lectures | 4.8 |
| The Lecturer is clear and comprehensible in lectures | 4.6 |
| The Lecturer is enthusiastic for the subject | 5.0 |
| The Lecturer gives lectures at the right pace | 4.5 |
| The Lecturer is able to reach student level | 4.9 |
| The Lecturer has a good rapport with class | 4.7 |
| The Lecturer encourages student participation | 4.3 |
| The Lecturer allows for, and answers, questions | 4.6 |
| The Lecturer is approachable and friendly | 4.9 |
| The Lecturer maintains student interest during lectures | 4.8 |
| The Lecturer gives varied, lively lectures | 4.8 |
| The Lecturer makes good use of visual aids | 4.8 |
| Overall rating of Lecturer by students | 4.8 |

D. GRADUATE STUDENT SUPERVISION

| Role | Student | Research Topic | Completion Date |
|-----------------------------|---------------------|---|-----------------|
| Chair, 2 Ph.D. Committees | Jason Graham | Attracting native bees with nesting habitat and resources | Dec 2013 |
| | Eddie Atkinson | Investigating the integration of small hive beetles (<i>Aethina tumida</i> Murray, Coleoptera: Nitidulidae) into western honey bee (<i>Apis mellifera</i> L., Hymenoptera: Apidae) colonies | Aug 2011 |
| Member, 1 Ph.D. Committee | Caroline Efstathion | Improving conservation and reproductive success of cavity-nesting birds by the use of insecticides to control hematophagous arthropods and nest site competing social hymenoptera | May 2015 |
| Chair, 6 Masters Committees | Ashley Mortensen | Impact of managed European honey bee colonies at Drone Congregation Areas | Aug 2013 |
| | Katie Buckley | Florida native wildflowers as nectar and pollen sources for native pollinators | Aug 2011 |
| | Anthony Vaudo | The effects of land management practices on Cape honey bee (<i>Apis mellifera capensis</i> Esch.) nesting dynamics | Dec 2010 |
| | Jason Graham | The attraction of bumble bee (Hymenoptera: Apidae, <i>Bombus impatiens</i> Cresson) colonies to small hive beetles (Coleoptera: Nitidulidae, <i>Aethina tumida</i> Murray) | Dec 2008 |
| | Tricia Toth | Lethal and sublethal effects of imidacloprid and amitraz on <i>Apis mellifera</i> L. (Hymenoptera: Apidae) larvae and pupae | Dec 2008 |
| | Pablo Herrera | Comparing crop pollination efficiency of native bees and honey bees in north central Florida | *** |

| | | | |
|------------------------------------|----------------------|--|----------|
| Member, 5 Masters Committees | Cindy Brast | Distance MS – non thesis | Dec 2013 |
| | Sarah Marshall | Superiority of Florida honey | May 2013 |
| | Katherine Hammons | Distance MS – non thesis | May 2013 |
| | Montana Atwater | Pollination ecology of moths in Florida scrub habitat | May 2011 |
| | Josephine Ratikan | **Masters without thesis** | Aug 2008 |

E. UNDERGRADUATE STUDENT RESEARCH/COURSE SUPERVISION

| Role | Student | Research Topic/Course | Duration |
|---|-----------------------|--|---------------------------------|
| Supervisor, Honors Thesis | Julian Aris | Entomology and Nematology, University of Florida) | Spring 2010 – Spring 2011 |
| Supervisor, Undergraduate Research | Christopher Mooney | Moisture effects on small hive beetle (<i>Aethina tumida</i> Murray, Coleoptera: Nitidulidae) pupation success in clay soils (Entomology and Nematology, University of Florida) | Fall 2009 |
| Supervisor, Independent Study Course in Apiculture | Kayla Brownell | Introduction to Apiculture (Entomology and Nematology, University of Florida) | Fall 2008 |
| Supervisor, Research Internship | Sparky Vilsaint | The effects of wood preservatives on honey bee mortality (Entomology and Nematology, University of Florida) | Summer 2008 |
| Supervisor, Undergraduate Research | Scott Knepper | Disease transmission between honey bee colonies (Entomology and Nematology, University of Florida) | Spring 2008 |

| | | | |
|--|---------------------|--|-------------|
| Supervisor, Undergraduate Research | Megan Magee | Fungal effects on small hive beetle pupation success (Entomology and Nematology, University of Florida) | Fall 2007 |
| Supervisor, Honors Thesis | Cameron Richards | The hygienic removal of sealed bee brood that has been oviposited in by small hive beetles (Rhodes University, Grahamstown, South Africa) | Spring 2004 |
| Supervisor, Honors Thesis | Mark Doolan | The susceptibility of small hive beetles to various soil fungi (Rhodes University, Grahamstown, South Africa) | Spring 2004 |

F. LETTERS OF RECOMMENDATION WRITTEN (while at UF)

Letters of recommendation written since my employment at UF

| Year | Type and Role | Number | Description |
|------|-------------------------|--------|------------------------------|
| 2012 | Scholarship/Employment | 18 | Graduate schools, employment |
| 2011 | Scholarship/Employment | 16 | Graduate schools, employment |
| 2010 | Scholarship/Employment | 17 | Graduate schools, employment |
| 2009 | Scholarship/Employment | 16 | Graduate schools, employment |
| 2008 | Scholarship/ Employment | 17 | Graduate schools, employment |
| 2007 | Scholarship/ Employment | 2 | Graduate schools, employment |

G. UNDERGRADUATE ADVISING (while at UF)

While at UF, I have employed 17 undergraduate students in my laboratory and supervised 28 undergraduate volunteers. Although this is a direct supervisory role for me, the students regularly visited me to discuss their academic futures, from what courses to take the following semester to where/how to attend graduate school. To that end, I provide academic guidance for these students as well as out-of-classroom learning opportunities. The latter especially is useful for the students as they are able to participate in research, extension, and instruction activities, collaborate with my graduate students, and see/understand how a research lab operates. Most of the undergraduate students I have employed have enrolled or intend to enroll in graduate school, medical school, pharmacy school, etc.

V. MISCELLANEOUS SERVICE/WORK/INFORMATION

A. INVITED REFEREE

1. Co-editor of Journal Special Issue

In 2008, a colleague (Dr. Peter Neumann – Swiss National Bee Research Unit) and I were guest co-editors of a special issue for the *Journal of Apicultural Research*. The issue was entitled: “The Small Hive Beetle (*Aethina tumida* Murray, Coleoptera: Nitidulidae): Distribution, Biology and Control of an Invasive Species”. In this issue, Dr. Neumann and I co-edited 11 manuscripts that were submitted for publication. I handled the editorship for 7 of the manuscripts. To my knowledge, this was the first ever special issue published by the *Journal of Apicultural Research*.

2. Scientific Journal Articles Reviewed

| Journal | Number of Articles Reviewed |
|---|-----------------------------|
| African Entomology | 1 |
| African Journal of Agriculture | 1 |
| American Bee Journal | 4 |
| Animal Behavior | 1 |
| Apidologie | 20 |
| Australian Journal of Entomology | 1 |
| Bee World | 1 |
| Biological Invasions | 1 |
| Bulletin of Insectology | 1 |
| Entomological Research | 1 |
| Environmental Entomology | 1 |
| Environmental Management | 1 |
| Environmental Toxicology and Chemistry | 1 |
| Letters in Applied Microbiology | 2 |
| Naturwissenschaften | 1 |
| Journal of Apicultural Research | 10 |
| Journal of Economic Entomology | 9 |
| Journal of Insect Behavior | 1 |
| Journal of Pest Science | 5 |
| Total number of journal articles reviewed since employment at UF | 63 |

3. Miscellaneous Reviews

| Type of Review | Number of Items Reviewed |
|----------------|--------------------------|
|----------------|--------------------------|

| | |
|---|----|
| USDA Small Business Innovation Research Plant Production and Protection Biology Grant Program | 1 |
| USDA - Peer Reviews (manuscript pre-submittal reviews) | 7 |
| Promotional Packet Reviewed | 3 |
| FDACS-DPI internal reviews (manuscript pre-submittal reviews) | 3 |
| Pesticide Label Expansions (Provado (twice), Spinosad, Agri-MEK, Intrepid, Clothianidin) | 6 |
| BBSRC Grant (UK) | 1 |
| Radio program scripts (<i>Gardening in a Minute</i>) | 5 |
| Grant Review for National Honey Board | 12 |
| Extension Document Review | 4 |
| UF Entomology and Nematology Internal Grant Review | 10 |
| Kentucky State University Research Grant | 1 |

B. MEMBERSHIP AND ACTIVITIES IN THE PROFESSION

1. UF Entomology and Nematology Department

- UF Extension Faculty Advisory Committee, 2012 - Present
- Assistant Professor Mentor Committee, 2011 – Present
- Member, Entomology and Nematology Instruction Faculty Search Committee – 2010
- Member, Entomology and Nematology “Best of Bugs” Committee, 2009 - present
- Member, Entomology and Nematology Administrative Committee, 2009 – present
- Member, Entomology and Nematology Outreach Committee, 2008 – present, Chair 2008 - 2010
- Search Committee for Instruction Faculty position in Department, 2010

2. UF Institute of Food and Agricultural Sciences

- Member, IFAS 4-H Program Development Committee
- Member, Plant Science Research and Education Unit Advisory Committee, 2009 – 2012

3. State, National, and International Organizations

Member of the Following Organizations

International

- Eurbee (2012 – Present)
- European COLOSS (colony loss) COST action (2008-present): member of the Executive committee
- International Bee Research Association (2008-present): member of the IBRA Council
- International Union for the Study of Social Insects (2006-present)

National

- American Beekeeping Federation (2009 – present)
- AFRI Managed Bee CAP – funded member (2009 – present)

- SETAC Pellston Conference Committee (2009)
- Entomological Society of America (2007-present)
- Eastern Apicultural Society (2006-2007)

State

- Florida Honey Bee Technical Council (2006-present)
- Florida Africanized Honey Bee Advisory Committee (2006-present)
- Florida Farm Bureau Honey Bee Advisory Committee (2007-present)
- Florida State Beekeepers Association (2008 – present)
- Florida Master Beekeeper Program Board (2007-present)
- Florida Entomological Society (2010-present)
- Georgia Beekeepers Association (2004-2005)
- Georgia Entomological Society (2005-2007)

C. BOOK EDITOR

I am one of 3 editors of the COLOSS Book Series entitled the *COLOSS BEEBOOK*. The COLOSS network was founded as a consequence of the high and frequent losses of Western honey bee colonies experienced in many regions of the world where the bee is kept. As many of the world's honeybee research teams began to address the problem, it soon became obvious that the lack of standardized research methods was hindering scientists' ability to compare and harmonize the results obtained internationally on colony losses. In the second year of activity of COLOSS, during a meeting held in Bern in 2009, Switzerland, the idea of a manual of standardized honeybee research methods emerged. The manual, then called the COLOSS *BEEBOOK*, was inspired by a publication with similar purpose for fruit fly research: *Drosophila: A Practical Approach* (Lindsley and Grell, 1968). Redaction of the first version of the *BEEBOOK* started in 2012 after recruiting experts to lead the redaction in each research domain. These senior authors (first in the author list) were tasked with recruiting a team of contributors to select the methods to be used as standards and report them in an user-friendly manner.

The *BEEBOOK* will be divided in three volumes:

The COLOSS *BEEBOOK*, Volume I: Standard methods for *Apis mellifera* research.

The COLOSS *BEEBOOK*, Volume II: Standard methods for *Apis mellifera* pest and pathogen research.

The COLOSS *BEEBOOK*, Volume III: Standard methods for *Apis mellifera* product research.

Volumes I and II will be published in the first half of 2013, whereas Volume III will be released in 2014.

In addition to the bench friendly manual, and in an effort to make the methods broadly available, every article of the *BEEBOOK* will be peer reviewed and available as open access articles in several special issues of the *Journal of Apicultural Research*. Several articles belonging to volumes I and II (see the list below) are released in the current issue. The remaining articles from these two volumes will be published at the time of the hard copy release in 2013. The third special issue on honey bee products will be published in 2014.

The chapter outline for the *BEEBOOK* follows.

BEEBOOK - Content

| | Chapter | Senior Authors | Editor in charge |
|--|---|----------------------------|-------------------------|
| Volume I – Methods Associated with Honey Bee Research | | | |
| i. | Editorial for Volume I | Dietemann , Ellis, Neumann | Carreck |
| ii. | Foreword for Volume I | Rob Page | Neumann |
| 1 | Anatomy and dissections | Norman Carreck | Dietemann |
| 2 | Behaviour | Ricarda Scheiner | Neumann |
| 3 | Cell cultures | Elke Genersch | Dietemann |
| 4 | Characterization of breeding populations and ecotypes | Marina Meixner | Dietemann |
| 5 | Chemical ecology | Baldwyn Torto | Dietemann |
| 6 | Colony strength parameters | Keith Delaplane | Ellis |
| 7 | Endosymbionts of honey bees | Nancy Moran | Ellis |
| 8 | GIS | Steph Rogers | Dietemann |
| 9 | Hoarding cage studies | Geoffrey Williams | Dietemann |
| 10 | In vitro rearing | Karl Crailsheim | Ellis |
| 11 | Instrumental insemination | Sue Cobey | Ellis |
| 12 | Miscellaneous laboratory methods | Hannelie Human | Dietemann |
| 13 | Molecular genetics | Jay Evans | Neumann |
| 14 | Physiology and biochemistry | Klaus Hartfelder | Dietemann |
| 15 | Pollination | Keith Delaplane | Ellis |
| 16 | Rearing queens | Ralph Büchler | Ellis |
| 17 | Statistics | Christian Pirk | Dietemann |
| 18 | Toxicology | Piotr Medrzycki | Ellis |
| Volume II – Methods Associated with Honey Bee Pests and Pathogens | | | |
| i. | Editorial for Volume II | Dietemann , Ellis, Neumann | Carreck |
| ii. | Foreword for Volume II | Anses Lab | Dietemann |
| 19 | Epidemiology | Dennis vanEngelsdorp | Ellis |
| 20 | Surveys for colony losses | Roméé van der Zee | Ellis |
| Pests | | | |
| 21 | Small hive beetles | Peter Neumann | Dietemann |
| 22 | Tracheal mites | Diana Sammataro | Ellis |
| 23 | <i>Tropilaelaps</i> | Dennis Anderson | Ellis |
| 24 | Varroa | Vincent Dietemann | Neumann |
| 25 | Wax moth | Jamie Ellis | Dietemann |
| Pathogens | | | |
| 26 | American foulbrood | Dirk de Graaf | Neumann |
| 27 | European foulbrood | Eva Forsgren | Neumann |
| 28 | Fungi | Annette Bruun Jensen | Dietemann |
| 29 | Nosema | Ingemar Fries | Neumann |
| 30 | Viruses | Joachim de Miranda | Neumann |
| Volume III – Methods Associated with Honey Bee Products | | | |
| i. | Editorial for Volume III | Dietemann , Ellis, Neumann | Carreck |
| ii. | Forward for Volume III | *** | *** |
| 31 | Honey | *** | *** |
| 32 | Pollen | *** | *** |

| | | | |
|------|-----------------------|-----|-----|
| 33 | Propolis | *** | *** |
| 34 | Royal Jelly | *** | *** |
| 35 | Venom | *** | *** |
| 36 | Wax | *** | *** |
| iii. | Gaps and perspectives | *** | *** |

***Senior authors and editor in charge not yet determined.

D. PROFESSIONAL DEVELOPMENT

- 2012 – Attended Workshop on Writing Effective Rubrics
- 2011 - Protein Chemistry and Molecular Cloning: A Molecular Techniques Laboratory – administered by the Interdisciplinary Center for Biotechnology Research (Fall 2011)
- 2011 - GIS Short Course – Introduction to GIS Technology (Fall 2011)
- 2010 – Audited the Ento/Nema course *Insect Molecular Genetics*
- 2010 – Audited the Ento/Nema course *Insect Toxicology*
- 2009 – IFAS Statistics Experimental Design Short Course
- 2009 - Attended IFAS International Programs workshop
- 2008 – Acquired Florida restricted use pesticide license (core, ag animal, and R&D)
- 2007 and 2008 - Attended grant writing seminar “Write Winning Grants”
- 2007 - Attended UF/IFAS Extension Symposium “Launching a state specialist extension program: don’t get left behind”
- 2007 - Attended UF/IFAS Extension Symposium “Demonstrating the impacts of your extension program”
- 2007 – participated in IFAS State/County experience

E. FOREIGN TRAVEL EXPERIENCE

Countries to which I have traveled:

Australia, Bangladesh, Bermuda, Brazil, Canada, Croatia, Cuba, England, France, Germany, Ghana, Grenada, Haiti, Ireland, Italy, Mexico, Northern Ireland, Serbia, South Africa, Switzerland

F. FOREIGN VOLUNTEER/SERVICE/ACTIVITIES

*noteworthy international contributions:

1. I am one of 4 North American board members on the council of the International Bee Research Association (IBRA). From the IBRA website, the IBRA:
 - “ is a not for profit organisation. It is funded from the generosity of our members and supporters, and by donations and legacies. The IBRA is run by a small team of dedicated staff and an international board of Trustees. In summary we collect, collate and disseminate information on all species of bees. We are a publishing house, producing a varied and extensive selection of bee publications: Journal of Apicultural Research - Award winning and scientifically acclaimed Bee World - the international link between beekeeping science and practice Journal of ApiProduct and ApiMedical Science - the latest research on hive products

Books - covering all aspects of bee science, history, and beekeeping Leaflets and cards - providing information in a practical format.”

2. I am a member of an international CCD (colony collapse disorder) working group. Known as COLOSS (Colony Losses), this group is a member of the European Union COST structure. The group is composed of over 200 bee scientists from over 45 member countries (mostly European countries). I was elected by the membership to be a member of the COLOSS Executive Committee in 2008. As an Executive Committee Member, I am charged with linking the COLOSS research and knowledge network to that of the various U.S. CCD working groups. I travel, expenses paid by the network, yearly to Europe to work directly with other members of the network. Twice, I have been invited to deliver the keynote address to the group. For more information on COLOSS, visit: <http://www.coloss.org/>
3. In 2009, I initiated a partnership with the Department of Zoology and Entomology, Rhodes University, South Africa. In short, I try to send one graduate student per year to South Africa to conduct field research on African honey bees, Cape honey bees, or other similar topics. I envision this partnership as an opportunity to study honey bees in their native habit, foster a long term relationship with an international institution, and provide graduate students in my laboratory with the opportunity to gain international experiences.
4. Since 2007, I have served as a host for visiting international graduate students, post doctoral research fellows, research scientists and professors.
 - Professor Niko and Dr. Gudrun Koeniger visited my lab for 6 weeks in 2011 and 2012 to conduct product efficacy trials on Varroa mites.
 - Michael Young, beekeeper and lecturer from Northern Ireland, visited my lab in 2012 and 2013 and lectured at the UF Bee College during both visits.
 - Dr. Dirk de Graaf from Belgium visited my lab in 2012 and gave a Departmental Seminar.
 - Sophie Himmelrich, a PhD student from Germany, visited my lab in 2012 to discuss pesticide impacts on bees. Sophie presented a lecture to my laboratory while here.
 - Dr. Ales Gregorc (former post doc from Slovenia) and I received a research travel grant to work on pesticide impacts on immature bees. Dr. Gregorc visited my lab for 3 weeks in August 2012 to initiate studies.
 - Mr. Dwayne Mitchell, Apiculturist at St. George’s University, visited my lab in 2011, 2012, and 2013 to discuss forming a partnership between my lab and his institute’s East Caribbean Bee Research and Extension Center. This will provide the platform for my future, international extension efforts in the Caribbean.
 - Ben Hooper, a professional beekeeper from Australia, visited my lab in 2012 and attended the UF Bee College.
 - In 2011, I hosted Dr. Silvia Reyes from the University of Mexico. She joined my lab to spend time studying small hive beetles.
 - Dr. Michelle Morais (a post doc from Dr. de Jong’s laboratory in Brazil) spent 3 weeks in my lab in 2011 working on a honey bee nutrition research project.
 - Mr. Dwayne Mitchell, Apiculturist at St. George’s University, visited my lab to discuss forming a partnership between my lab and his institute’s East Caribbean Bee Research and Extension Center. This will provide the platform for my future, international extension efforts in the Caribbean.
 - Since 2009, I have hosted Dr. David de Jong from Brazil. Dr. de Jong is a world expert on African honey bees. He and I are collaborating on two projects concerning methods for identifying African honey bees.

5. April/May 2006 – served as a volunteer apiculture consultant in Haiti under the Farmer-to-Farmer program administered by Partners of the Americas. Conducted site visits and lectures for Haitian beekeepers around Cap Haitien, Haiti. Advised beekeepers on general colony management, and disease control for optimum honey production. I placed a particular emphasis on varroa control.
6. October/November 2004 – served as a volunteer apiculture consultant in Bangladesh under the Farmer-to-Farmer program administered by Winrock International. Conducted site visits and lectures for the Center for Mass Education in Science, Dhaka, Bangladesh. Advised its members on honey bee breeding, general management, and disease control for optimum honey production.

G. JUDGING EVENTS

1. 4-H Judging Opportunities:

- 1998 - 2006: judged Junior and Senior Entomology 4-H DPA projects

2. Honey Show Judging:

- 1999, head judge, Georgia Beekeepers Association State Honey Show

3. High School Competitions:

- 2005, judged Georgia State Science and Engineering Fair exhibits. Judged Zoology category
- 2002, judged Georgia (USA) high school extemporaneous speech competition

VI. RECOGNITION, OUTSTANDING ACHEIVEMENTS

PROFESSIONAL AWARDS

1. 2012, Excellence in Young, Beginning, or Small Farmers/Ranchers National Award, National Association of County Ag Agents: Beekeeping in the FL Panhandle, Judy Ludlow, Libbie Johnson, Roy Carter, Allison Meharg, Andy Andreasen, Bill Mahan, Charles Simon, Doub Mayo, Jamie Ellis, Henry Grant, Jed Dillard, John Atkins, Larry Williams, Les Harrison, Lester Muralles, Marjorie Moore, Mark Dykes, Matt Orwat, Michael Donahoe, Michael Goodchild, Mindy Hittle, Rob Trawick, Scott Johnson, Sheila Dunning, Shep Eubanks, Sherri Kraeft and Will Sheftall.
2. 2010, Entomologist of the Year, Florida Entomological Society.
3. 2009, Researcher of the Year, Florida State Beekeepers Association.
4. 2007, Roger Hoopingarner Award for Most Outstanding Research Presentation at Annual Meeting, American Beekeeping Federation.
5. 2007, Researcher of the Year, Florida State Beekeepers Association.
6. 2006, Oliver I. Snapp Award for Outstanding Research Presentation, Georgia Entomological Society.

7. 2005, Oliver I. Snapp Award for Outstanding Research Presentation, Georgia Entomological Society.
8. 2003, Selected for “Who’s Who in Science and Engineering” by Marquis Who’s Who.