

CURRICULUM VITAE

Personal Data

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Education

11/89 – 4/93 Ph.D. Agricultural Sciences, Justus Liebig University, Giessen, Germany. Thesis:
Investigation of Endemic Natural Enemies of the Banana Weevil in Western Kenya and its
integrated control.
11/1985 – 10/1989 M.S. Biology, Friedrich-Wilhelms-University, Bonn, Germany. Thesis:
Histology, Histochemistry and Functions of the Salivary Glands of Adult Parasitoids.
10/1983 – 10/1985 B.S. Biology, Friedrich-Wilhelms-University, Bonn, Germany.

Military Service 7/1/82 - 9/30/83

Languages German = fluent English = fluent Italian = fair French = fair

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EMPLOYMENT RECORD

7/09 – present: Professor/Extension Specialist, Turfgrass Entomology, School for Environmental
and Biological Sciences, Rutgers University, New Brunswick.
7/04 – 6/09: Associate Professor/Extension Specialist, Turfgrass Entomology, Cook College,
Rutgers University, New Brunswick.
8/99 – 6/04: Assistant Professor/Extension Specialist, Turfgrass Entomology, Cook College,
Rutgers University, New Brunswick.
11/95 – 7/99: Postdoctoral Fellow, Harry K. Kaya, Dept. Nematology, Univ. California, Davis.
5/95 – 10/95: Postdoctoral Fellow, Bruce A. Jaffee, Dept. Nematology, UC Davis.
5/93 – 4/95: Visiting Scientist, Harry K. Kaya, Dept. Nematology, UC Davis.
12/89 – 12/92: Scientific employee, Institute for Plant Pathology, Univ. Bonn, Germany, and
The International Centre of Insect Physiology and Ecology (ICIPE), Kenya.
4/89 – 11/89: Student assistant, Institute for Plant Pathology, Univ. Bonn, Germany.

RESEARCH PUBLICATIONS

Citations, Google Scholar, 1/7/22: h-index 41; i10-index 98; 5,704 citations
Citations, Web of Science, 3/12/22: h-index 31; 2,965 citations; 27.2 per item

Journal Articles (peer reviewed)

*indicates author is advisee (grad. student or postdoc) of A.M. Koppenhöfer

1. **Koppenhöfer A.M.**, Seshu Reddy K.V., Madel G. & Lubega M.C. 1992. Predators of the banana weevil, *Cosmopolites sordidus* (Germar) (Col., Curculionidae) in western Kenya. *J. Appl. Entomol.* 114, 530-533. **(12)**
2. **Koppenhöfer A.M.** 1993. Observations on egg-laying behaviour of the banana weevil, *Cosmopolites sordidus* (Germar). *Entomol. Exp. Appl.* 68, 187-192. **(16)**
3. **Koppenhöfer A.M.** 1993. Egg predators of the banana weevil, *Cosmopolites sordidus* (Germar) (Col., Curculionidae) in western Kenya. *J. Appl. Entomol.* 116, 352-357. **(13)**
4. **Koppenhöfer A.M.** & Schmutterer H. 1993. *Dactylosternum abdominale* (F.) (Coleoptera: Hydrophilidae): A predator of the banana weevil. *Biocontrol Sci. Technol.* 3, 141-147. **(4)**
5. **Koppenhöfer A.M.** 1994. Observations on the bionomics of *Thyreocephalus interocularis* (Eppelsheim) (Col., Staphylinidae), a predator of the banana weevil. *J. Appl. Entomol.* 117, 388-392. **(3)**
6. **Koppenhöfer A.M.** & Seshu Reddy K.V. 1994. A comparison of rearing methods for the banana weevil, *Cosmopolites sordidus* (Germar) (Col.: Curcul.) on its natural host. *Insect Sci. Applic.* 15, 191-195. **(5)**
7. **Koppenhöfer A.M.**, Seshu Reddy K.V. & Sikora R.A. 1994. Reduction of banana weevil populations with pseudostem traps. *Int. J. Pest Management.* 40, 300-304. **(17)**
8. **Koppenhöfer A.M.**, Sikora R.A. & Seshu Reddy K.V. 1995. Eidonomy and ecology of *Dactylosternum abdominale* (Coleoptera: Hydrophilidae), a predator of the banana weevil. *Entomol. Gen.* 19, 303-313. **(1)**
9. **Koppenhöfer A.M.** 1995. Bionomics of *Euborellia annulipes* (Dermaptera: Carcinophoridae) in Kenya. *Entomol. Gen.* 20, 81-85. **(4)**
10. **Koppenhöfer A.M.**, Kaya H.K. & Taormino S.P. 1995. Infectivity of entomopathogenic nematodes (Rhabditida: Steinernematidae) at different soil depths and moistures. *J. Invertebr. Pathol.* 65, 193-199. **(67)**
11. **Koppenhöfer A.M.**, Kaya H.K., Shanmugam S. & Woods G.L. 1995. Interspecific competition between steinernematid nematodes within an insect host. *J. Invertebr. Pathol.* 66, 99-103. **(34)**
12. **Koppenhöfer A.M.** & Kaya H.K. 1995. Density-dependent effects on *Steinernema glaseri* (Rhabditida; Steinernematidae) within an insect host. *J. Parasitol.* 81, 797-799. **(20)**
13. **Koppenhöfer A.M.**, Baur M.E. & Kaya H.K. 1996. Competition between two steinernematid nematode species for an insect host at different soil depths. *J. Parasitol.* 82, 34-40. **(15)**
14. Choo H.Y., **Koppenhöfer A.M.** & Kaya H.K. 1996. Combination of two entomopathogenic nematode species for suppression of an insect pest. *J. Econ. Entomol.* 89, 97-103. **(13)**
15. **Koppenhöfer A.M.** & Kaya H.K. 1996. Coexistence of entomopathogenic nematodes species (Rhabditida: Steinernematidae, Heterorhabditidae) with different foraging behavior. *Fund. Appl. Nematol.* 19, 175-183. **(19)**

16. Kaya H.K. & **Koppenhöfer A.M.** 1996. Effects of microbial and other antagonistic organisms and competition on entomopathogenic nematodes. *Biocontrol Sci. Technol.* 6, 357-371. **(71)**
17. **Koppenhöfer A.M.**, Jaffee B.A., Muldoon A.E., Strong D.R. & Kaya H.K. 1996. Effect of nematode-trapping fungi on an entomopathogenic nematode originating from the same site in northern California. *J. Invertebr. Pathol.* 68, 246-252. **(26)**
18. **Koppenhöfer A.M.** & Kaya H.K. 1996. Coexistence of two steinernematid nematode species (Rhabditida: Steinernematidae) in the presence of two host species. *Appl. Soil. Ecol.* 4, 221-230. **(27)**
19. **Koppenhöfer A.M.**, Jaffee B.A., Muldoon A.E. & Strong D.R. 1997. Suppression of an entomopathogenic nematode by the nematode-trapping fungi *Geniculifera paucispora* and *Monacrosporium eudermatum* as affected by the nematode-trapping fungus *Arthrobotrys oligospora*. *Mycologia* 89, 220-227. **(9)**
20. **Koppenhöfer A.M.** & Kaya H.K. 1997. Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for scarab grub control. *Biol. Control* 8, 131-137. **(78)**
21. **Koppenhöfer A.M.**, Baur M. E., Stock P.S., Choo H.Y., Chinnasri B. & Kaya H.K. 1997. Survival of entomopathogenic nematodes (Steinernematidae and Heterorhabditidae) within host cadavers in dry soil. *Appl. Soil. Ecol.* 6, 231-240. **(47)**
22. **Koppenhöfer A.M.**, Campbell J.F., Kaya H.K. & Gaugler R. 1998. Estimation of entomopathogenic nematode density in soil using the correlation between bait insect mortality and nematode penetration. *Fundam. App. Nematol.* 21, 95-102. **(32)**
23. **Koppenhöfer A.M.** & Kaya H.K. 1998. Synergism of imidacloprid and entomopathogenic nematodes: A novel approach to white grub control in turfgrass. *J. Econ. Entomol.* 91, 618-623. **(62)**
24. **Koppenhöfer A.M.**, Choo H.Y., Kaya H.K., Lee D.W. & Gelernter W.D. 1999. Increased field and greenhouse efficacy with a combination of entomopathogenic nematode and *Bacillus thuringiensis* against scarab grubs. *Biol. Control* 14, 37-44. **(46)**
25. **Koppenhöfer A.M.** & Kaya H.K. 1999. Ecological characterization of *Steinernema rarum*. *J. Invertebr. Pathol.* 73, 120-128. **(38)**
26. Campbell J.F., **Koppenhöfer A.M.**, Kaya H.K. & Chinnasri B. 1999. Are there temporarily non-infectious dauer stages in entomopathogenic nematode populations: a test of the phased infectivity hypothesis. *Parasitol.* 118, 499-508. **(34)**
27. Kaya H.K., **Koppenhöfer A.M.** & Johnson M. 1999. Natural enemies of entomopathogenic nematodes. *Jpn. J. Nematol.* 28, 13-21.
28. **Koppenhöfer A.M.** & Kaya H.K. 2000. Interactions of a nucleopolyhedrovirus with azadirachtin and imidacloprid. *J. Invertebr. Pathol.* 75, 84-86. **(11)**
29. **Koppenhöfer A.M.**, Ganguly S. & Kaya H.K. 2000. Ecological characterization of *Steinernema monticolum*, a cold-adapted entomopathogenic nematode from Korea. *Nematol.* 2, 407-416. **(22)**
30. **Koppenhöfer A.M.**, Wilson M.G., Brown I., Kaya H.K. & Gaugler R. 2000. Biological control agents for white grubs (Coleoptera: Scarabaeidae) in anticipation of the establishment of the Japanese beetle in California. *J. Econom. Entomol.* 93, 71-80. **(39)**
31. **Koppenhöfer A.M.**, Grewal P.S. & Kaya H.K. 2000. Synergism of entomopathogenic nematodes and imidacloprid against white grubs: the mechanism. *Entomol. Exp. Applic.* 94, 283-293. **(67)**

32. **Koppenhöfer A.M.**, Brown I., Gaugler R., Grewal P.S., Kaya H.K. & Klein M.G. 2000. Synergism of entomopathogenic nematodes and imidacloprid against white grubs: greenhouse and field evaluation. *Biol. Control* 19, 245-251. **(73)**
33. Hazir S., Stock S.P., Kaya H.K., **Koppenhöfer A.M.** & Keskin N. 2001. Developmental temperature effects on five geographic isolates of the entomopathogenic nematodes, *Steinernema feltiae* (Nematoda: Steinernematidae). *J. Invertebr. Pathol.* 77, 243-250. **(63)**
34. **Koppenhöfer A.M.**, Cowles R.S., Cowles E.A., Fuzy E.M. & Baumgartner L. 2002. Comparison of neonicotinoid insecticides as synergists for entomopathogenic nematodes. *Biol. Control* 24, 90-97. **(48)**
35. **Koppenhöfer A.M.** & Fuzy E.M. 2002. Lack of interaction of *Paenibacillus popilliae* and stilbene-derived optical brighteners in Japanese beetle larvae. *BioControl* 47, 707-714. **(1)**
36. **Koppenhöfer A.M.**, Cowles R.S., Cowles E.A., Fuzy E.M. & Kaya H.K. 2003. Effect of neonicotinoid insecticide synergists on entomopathogenic nematode fitness. *Entomol. Exp. Appl.* 106, 7-18. **(24)**
37. **Koppenhöfer A.M.** & Fuzy E.M. 2003. Effects of turfgrass endophytes (Clavicipitaceae: Ascomycetes) on white grub (Coleoptera: Scarabaeidae) control by the entomopathogenic nematode *Heterorhabditis bacteriophora* (Rhabditida: Heterorhabditidae). *Environ. Entomol.* 32, 392-396. **(16)**
38. Stock, S.P. & **Koppenhöfer A.M.** 2003. *Steinernema scarabaei* n. sp. (Rhabditida: Steinernematidae), a natural pathogen of scarab larvae (Coleoptera: Scarabaeidae) from New Jersey. *Nematol.* 5, 191-204. **(46)**
39. **Koppenhöfer A.M.** & Fuzy E.M. 2003. Ecological characterization of *Steinernema scarabaei*: a natural pathogen of scarab larvae. *J. Invertebr. Pathol.* 83, 139-148. **(37)**
40. **Koppenhöfer A.M.** & Fuzy E.M. 2003. *Steinernema scarabaei* for the control of white grubs. *Biol. Control* 28, 47-59. **(50)**
41. **Koppenhöfer A.M.** & Fuzy E.M. 2003. Biological and chemical control of the Asiatic garden beetle, *Maladera castanea* (Coleoptera: Scarabaeidae). *J. Econ. Entomol.* 96, 1076-1082. **(24)**
42. **Koppenhöfer A.M.**, Cowles R.S. & Fuzy E.M. 2003. Effect of turfgrass endophytes (Clavicipitaceae: Ascomycetes) on white grub (Coleoptera: Scarabaeidae) larval development and field populations. *Environ. Entomol.* 32, 895-906. **(11)**
43. Cappaert D.C. & **Koppenhöfer A.M.** 2003. *Steinernema scarabaei*, an entomopathogenic nematode for control of the European chafer. *Biol. Control* 28, 379-386. **(23)**
44. **Koppenhöfer A.M.**, Fuzy E.M., Crocker R., Gelernter W. & Polavarapu S. 2004. Pathogenicity of *Steinernema scarabaei*, *Heterorhabditis bacteriophora* and *S. glaseri* to twelve white grub species. *Biocontrol Sci. Technol.* 14, 87-92. **(45)**
45. **Koppenhöfer A.M.** & Fuzy E.M. 2004. Effect of white grub developmental stage on susceptibility to entomopathogenic nematodes. *J. Econ. Entomol.* 97, 1842-1849. **(45)**
46. **Koppenhöfer A.M.**, Polavarapu S., Fuzy E.M., Zhang A., Ketner K., Larsen T. 2005. Mating disruption of oriental beetle (Coleoptera: Scarabaeidae) in turfgrass using microencapsulated formulations of sex pheromone components. *Environ. Entomol.* 34, 1408-1417. **(16)**
47. Georgis R., **Koppenhöfer A.M.**, Lacey L.A., Belair G., Duncan L.W., Grewal P.S., Samish M., Torr P., van Tol R.W.H.M. 2006. Successes and Failures of Entomopathogenic Nematodes. *Biol. Control.* 38, 103-123. **(205)**

48. **Koppenhöfer A.M.**, Fuzy E.M. 2006. Effect of soil type on infectivity and persistence of the entomopathogenic nematodes *Steinernema scarabaei*, *Steinernema glaseri*, *Heterorhabditis zealandica*, and *Heterorhabditis bacteriophora*. *J. Invertebr. Pathol.* 92, 11-22. **(59)**
49. **Koppenhöfer A.M.**, Grewal P. S., Fuzy E.M. 2006. Virulence of the entomopathogenic nematodes *Heterorhabditis bacteriophora*, *H. zealandica*, and *Steinernema scarabaei* against five white grub species (Coleoptera: Scarabaeidae) of economic importance in turfgrass in North America. *Biol. Control.* 38, 397-404. **(42)**
50. **Koppenhöfer A.M.**, Fuzy E.M. 2007. Soil moisture effects on infectivity and persistence of the entomopathogenic nematodes *Steinernema scarabaei*, *Steinernema glaseri*, *Heterorhabditis zealandica*, and *Heterorhabditis bacteriophora*. *Appl. Soil Ecol.* 35, 128-139. **(28)**
51. **Koppenhöfer A.M.**, Grewal P. S., Fuzy E.M. 2007. Differences in penetration routes and establishment rates of four entomopathogenic nematode species into four white grub species. *J. Invertebr. Pathol.* 94, 184-195. **(27)**
52. Polavarapu S., **Koppenhöfer A.M.**, Barry J.D., Holdcraft R.J., Fuzy E.M. 2007. Entomopathogenic nematodes and neonicotinoids for remedial control of oriental beetle, *Anomala orientalis* (Coleoptera: Scarabaeidae), in highbush blueberry. *Crop Protection* 26, 1266-1271. **(19)**
53. **Koppenhöfer A.M.**, Rodriguez-Saona C.R., Polavarapu S., Holdcraft R.J. 2008. Entomopathogenic nematodes for control of *Phyllophaga georgiana* (Coleoptera: Scarabaeidae) in cranberries. *Biocontrol Sci. Technol.* 18, 21-31. **(5)**
54. **Koppenhöfer A.M.**, Fuzy E.M.* 2008. Effects of the anthranilic diamide insecticide, chlorantraniliprole, on *Heterorhabditis bacteriophora* (Rhabditida: Heterorhabditidae) efficacy against and reproduction in white grubs (Coleoptera: Scarabaeidae). *Biol. Control* 45, 93-102. **(46)**
55. **Koppenhöfer A.M.**, Fuzy E.M.* 2008. Early timing and new combinations to increase the efficacy of neonicotinoid-entomopathogenic nematodes (Rhabditida: Heterorhabditidae) combinations against white grubs (Coleoptera: Scarabaeidae). *Pest Manag. Sci.* 64, 725–735. **(29)**
56. McGraw B.A.* , **Koppenhöfer A.M.** 2008. Evaluation of two endemic and five commercial entomopathogenic nematode species (Rhabditida: Heterorhabditidae and Steinernematidae) against annual bluegrass weevil (Coleoptera: Curculionidae) larvae and adults. *Biol. Control.* 46, 467-475. **(13)**
57. **Koppenhöfer A.M.**, Fuzy E.M.* 2008. Attraction of four entomopathogenic nematode species to four white grub species. *J. Invertebr. Pathol.* 99, 227-234. **(20)**
58. **Koppenhöfer A.M.**, Behle R.W., Dunlap C., Fisher J., Laird C., Vittum P.J. 2008. Pellet formulations of sex pheromone components for mating disruption of oriental beetle (Coleoptera: Scarabaeidae) in turfgrass. *Environ. Entomol.* 37, 1126-1135. **(7)**
59. Behle R.W., Cossé A.A., Dunlap C., Fisher J., **Koppenhöfer A.M.** 2008. Developing wax-based granule formulations for mating disruption of oriental beetles (Coleoptera: Scarabaeidae) in turfgrass. *J. Econ. Entomol.* 101, 1856-1863. **(6)**
60. McGraw B.A.* , **Koppenhöfer A.M.** 2009. Population dynamics and interactions between endemic entomopathogenic nematodes and annual bluegrass weevil populations in golf course turfgrass. *Appl. Soil Ecol.* 41, 77-89. **(15)**

61. **Koppenhöfer A.M.**, Fuzy E.M.* 2009. Long-term effects and persistence of *Steinernema scarabaei* applied for suppression of *Anomala orientalis* (Coleoptera: Scarabaeidae). *Biol. Control.* 48, 63-72. **(24)**
62. Robbins P., Roelofs W., Polavarapu S., Rodriguez-Saona C., **Koppenhöfer A.M.** 2009. Sex pheromone of the scarab beetle *Phyllophaga (Phytalus) georgiana* (Horn). *J. Chem. Ecol.* 35, 336-441. **(8)**
63. McGraw B.A.* , **Koppenhöfer A.M.** 2009. Development of binomial sequential sampling plans for forecasting *Listronotus maculicollis* (Coleoptera: Curculionidae) larvae based on the relationship to adult counts and turfgrass damage. *J. Econ. Entomol.* 102, 1325-1335. **(17)**
64. Bélair G., **Koppenhöfer A.M.**, Dionne J., Simard L. 2010. Current and potential use of pathogens in the management of turfgrass insects as affected by new pesticide regulations in North America. *Int. J. Pest Manag.* 56, 51-60. **(14)**
65. McGraw B.A.* , Cowles R., Vittum P.J., **Koppenhöfer A.M.** 2010. Field evaluation of entomopathogenic nematodes for the biological control of the annual bluegrass weevil, *Listronotus maculicollis* (Coleoptera: Curculionidae) in golf course turfgrass. *Biocontrol Sci. Technol.* 20: 149-163. **(8)**
66. McGraw B.A.* , **Koppenhöfer A.M.** 2010. Spatial distribution of colonizing *Listronotus maculicollis* populations: implications for targeted management and host preference. *J. Appl. Entomol.* 134, 275-284. **(10)**
67. McGraw B.A.* , Szendrei Z., Holdcraft R., Rodriguez-Saona C., **Koppenhöfer A.M.** 2011. Behavioral and electrophysiological responses of *Listronotus maculicollis* (Coleoptera: Curculionidae) to volatiles from intact and mechanically damaged annual bluegrass. *Environ. Entomol.* 40, 412-419. **(9)**
68. Ebssa L.* , **Koppenhöfer A.M.** 2011. Efficacy and persistence of entomopathogenic nematodes for black cutworm control in turfgrass. *Biocontrol Sci. Technol.* 21, 779-796. **(16)**
69. Ebssa L.* , Fuzy E.M.* , Bickerton M.W., **Koppenhöfer A. M.** 2012. Host density effects on efficacy of entomopathogenic nematodes against white grub (Coleoptera: Scarabaeidae) species. *Biocontrol Sci. Technol.* 22, 117-123. **(3)**
70. Ebssa L.* , **Koppenhöfer A.M.** 2012. Entomopathogenic nematodes for black cutworm management: effect of instar, nematode species, and nematode production method. *Pest Mgt. Sci.* 68, 947-957. **(17)**
71. Ali J.G., Alborn H.T., Campos-Herrera R., Kaplan F., Duncan L.W., Rodriguez-Saona C., **Koppenhöfer A.M.**, Stelinski L.L. 2012. Subterranean, herbivore-induced plant volatile increases biological control activity of multiple beneficial nematode species in distinct habitats. *PLoS ONE* 7(6), 1-8. **(53)**.
72. **Koppenhöfer A.M.**, Ebssa L.* , Fuzy E.M.* 2013. Storage temperature and duration affect *Steinernema scarabaei* dispersal and attraction, virulence, and infectivity to a white grub host. *J. Invertebr. Pathol.* 112, 129-137. **(7)**
73. Elmowitz D.E.* , Ebssa L.* , **Koppenhöfer A.M.** 2013. Overwintering behavior of the entomopathogenic nematodes *Steinernema scarabaei* and *Heterorhabditis bacteriophora* (Rhabditida: Steinernematidae and Heterorhabditidae) and their white grub hosts (Coleoptera: Scarabaeidae). *Entomol. Exp. Appl.* 148, 246-258. **(3)**.

74. Rodriguez-Saona C.R., Polk D, Holdcraft R, **Koppenhöfer A.M.** 2014. Long-term evaluation of field-wide oriental beetle (Col., Scarabaeidae) mating disruption in blueberries using female-mimic pheromone lures. *J. Appl. Entomol.* 138, 120-132. (2)
75. Provance-Bowley, M., **Koppenhöfer A.M.**, Heckman J. 2014. Soil fertility amendments and white grub populations of turf. *Communications in Soil Sci. Plant Analysis* 45, 1059-1070. (0)
76. Kostromytska O.S.*, **Koppenhöfer A.M.** 2014. Ovipositional preferences and larval survival of annual bluegrass weevil, *Listronotus maculicollis*, on *Poa annua* and selected bentgrasses (*Agrostis* spp.). *Entomol. Exp. Appl.* 152, 108-119. (7)
77. Ambrose K.V., **Koppenhöfer A.M.**, Belanger F.C. 2014. Horizontal gene transfer of a bacterial insect toxin gene into the *Epichloë* fungal symbionts of grasses. *Sci. Rep.* 4, 5562; DOI:10.1038/srep05562. (22)
78. Sheykhnejad H., Ghadamyari M., **Koppenhöfer A.M.**, Karimi J. 2014. Interactions between entomopathogenic nematodes and imidacloprid for rose sawfly control. *Biocontr. Sci. Technol.* 24(12), 1481-1486. (3)
79. Rivera M.J.*, Rodriguez-Saona C., Jennings D.E., **Koppenhöfer A.M.** 2015. Assessing the impact of cultivation and plant domestication of highbush blueberry (*Vaccinium corymbosum*) on soil properties and associated plant-parasitic nematode communities. *Soil Biol. Biochem.* 88, 25-28. (3)
80. McGraw B.A., **Koppenhöfer A.M.** 2015. Spatial analysis of *Listronotus maculicollis* immature stages demonstrate strong associations with conspecifics and turfgrass damage but not with optimal hosts on golf course fairways. *Entomol. Exp. Appl.* 157, 307-316. (0)
81. Gyawaly S., **Koppenhöfer A.M.**, Kuhar T.P., Wu S.* 2016. Biology, ecology and management of masked chafer (Coleoptera: Scarabaeidae) grubs in turfgrass. *J. Integr. Pest Manag.* 7 (1), 3, 1-11. (2)
82. Rivera M.J.*, Rodriguez-Saona C., Egizi A., Fonseca D.M., Jennings D.E., **Koppenhöfer A.M.** 2016. Cultivation and domestication of highbush blueberry (*Vaccinium corymbosum*) alters abundance, diversity, and virulence of entomopathogenic nematodes. *Agricult. Ecosystem Environ.* 222, 148-155. (3)
83. Kostromytska O.S.*, **Koppenhöfer A.M.** 2016. Responses of *Poa annua* and three bentgrass species (*Agrostis* spp.) to adult and larval feeding of annual bluegrass weevil, *Listronotus maculicollis* (Coleoptera: Curculionidae). *Bull. Entomol. Res.* 29, 729-739. (4)
84. Rivera M.J.*, Rodriguez-Saona C., Alborn H., **Koppenhöfer A.M.** 2016. Differential response of a local population of entomopathogenic nematodes to non-native herbivore induced plant volatiles (HIPV) in the laboratory and field. *J. Chem. Ecol.* 42, 1259-1264. (2)
85. McGraw B.A., **Koppenhöfer A.M.** 2017. A survey of regional trends in annual bluegrass weevil (Coleoptera: Curculionidae) management on golf courses in eastern North America. *J. Integr. Pest Manag.* 8, 1-11. (6)
86. Wu S.*, Kostromytska O.S.*, **Koppenhöfer A.M.** 2017. Synergistic combinations of a pyrethroid insecticide and an emulsifiable formulation of an entomopathogenic fungus to overcome insecticide resistance in *Listronotus maculicollis* (Coleoptera: Curculionidae). *J. Econ. Entomol.* 110, 1794-1802. (5)
87. Marianelli L., Paoli F., Torrini G., Mazza G., Benvenuti C., Binazzi F., Sabbatini Peverieri G., Bosio G., Venanzio D., Giacometto E., Priori S., **Koppenhöfer A.M.**, Roversi P.F. 2018. Biological control of *Popillia japonica* (Coleoptera, Scarabaeidae): managing the Italian outbreak. *J. Appl. Entomol.* 142, 311-318. (1)

88. Wu S.*, Kostromytska O.S.*, Xue F., **Koppenhöfer A.M.** 2018. Chilling effect on termination of reproductive diapause in *Listronotus maculicollis* (Coleoptera: Curculionidae). *J. Insect Physiol.* 104, 25-32. (5)
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- Koppenhöfer A.M.** 2016. First thoughts after a crazy ABW spring season in NJ. *WeevilTrak Blog*. June 27, 2016. <http://www.greencastonline.com/WeevilTrak/Blogs/PostDetails.aspx?id=199382>
- Koppenhöfer A.M.** 2016. For resistant ABW (or any ABW): consider switching to larvae as the main, or only, target. *WeevilTrak Blog*, online. August 1, 2016. <http://www.greencastonline.com/WeevilTrak/Blogs/PostDetails.aspx?id=200262>
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- Koppenhöfer A.M.** 2017. "The Incredible Hulk": ABW monitoring and the weather. *WeevilTrak Blog*, online. March 27, 2017. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=203220>
- Koppenhöfer A.M.** 2017. Get ready for adult ABW treatments in central NJ, a little later in northern NJ. *WeevilTrak Blog*, online. April 13, 2017. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=203366>

- Koppenhöfer A.M.** 2017. Time for early ABW larvicides in central NJ, getting there in northern NJ. *WeevilTrak Blog*, online. May 4, 2017. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=203558>
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- Koppenhöfer A.M.** 2017. ABW spring generation close to complete in central and northern NJ. *WeevilTrak Blog*. June 20, 2017. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=204042>
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- Koppenhöfer A.M., Kostromytska O.S., Wu S.** 2018. Developing optimal management programs for annual bluegrass weevil populations with different insecticide resistance levels. NY State Turf Assn. Electronic Newsletter, March 2018.
- Koppenhöfer A.M.** 2018. When will the weevils come marching? Will they be 1x1 or 10x10? *WeevilTrak Blog*. 3/15, 2018. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=206511>
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- Koppenhöfer A.M.** 2018. Rhododendron starting to bloom: scout for larvae and, if necessary, apply larvicides vs. mid-size larvae. *WeevilTrak Blog*, online. May 16, 2018. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=207119>
- Koppenhöfer A.M.** 2018. Spring ABW generation approaching adulthood in NJ. *WeevilTrak Blog*, online. June 22, 2018. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=207506>
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- Koppenhöfer A.M.** 2019. 2019 ABW season in New Jersey. *WeevilTrak Blog*, online. March 21, 2019. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=209769>
- Koppenhöfer A.M.** 2019. ABW adults building up in New Jersey. Prepare for adulticide applications if necessary. *WeevilTrak Blog*, online. April 18, 2019. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=209998>
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- Koppenhöfer A.M.** 2019. In central and northern New Jersey ABW Spring generation close to complete. *WeevilTrak Blog*, online. June 17, 2019. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=210502>
- Koppenhöfer A.M.** 2019. If scouting reveals high ABW larval densities, time for larvicides to control the first summer generation of ABW. *WeevilTrak Blog*, online. July 15, 2019. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=211276>
- Koppenhöfer A.M.** 2019. 2019 ABW season summary and 2020 outlook. *WeevilTrak Blog*, online. August 26, 2019. <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=211656>

- Koppenhöfer A.M.** 2020. 2020 ABW season outlook and summary of GDD and plant phenology. *WeevilTrak Blog*, online. March 4, 2020
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- Koppenhöfer A.M.** 2020. How to live with restrictions during COVID-19 pandemic. *Weevil-Trak Blog*, online. April 9, 2020 <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=213608>
- Koppenhöfer A.M.** 2020. Best soaping practices and discrepancies between phenological indicators and growing degree days. *WeevilTrak Blog*, online. April 10, 2020
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- Koppenhöfer A.M.** 2020. Timing adulticides was a shot in the dark: better to rely on larvicides this spring. *WeevilTrak Blog*, online. May 7, 2020
<http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=213788>
- Koppenhöfer A.M.** 2020. Time to control all larval stages: ABW stages likely to be all over the place. *WeevilTrak Blog*, online. May 28, 2020
<http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=214965>
- Koppenhöfer A.M.** 2020. ABW larvae of 1st summer generation: time to scout for and control if necessary. *WeevilTrak Blog*, online. July 20, 2020
<http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=215386>
- Koppenhöfer A.M.** 2020. ABW larvae abound: is this the 2nd summer generation? *WeevilTrak Blog*, online. August 12, 2020 <http://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=215536>
- Koppenhöfer A.M.** 2021. Getting ready to track ABW: methods for predicting activity and estimating adult populations. *WeevilTrak Blog*, online. March 15, 2021
<https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=218077>
- Koppenhöfer A.M.** 2021. The time for ABW adulticide applications is around the corner in central and northern New Jersey. *WeevilTrak Blog*, online. April 16, 2021
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- Koppenhöfer A.M.** 2021. Time for larvicides in central and northern New Jersey. *WeevilTrak Blog*, online. May 19, 2021 <https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=218681>
- Koppenhöfer A.M.** 2021. In central and northern New Jersey ABW spring generation close to complete for 2021. *WeevilTrak Blog*, online. June 29, 2021
<https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=218077>
- Koppenhöfer A.M.** 2021. ABW stages all over the place in central and northern NJ. *Weevil-Trak Blog*, online. July 28, 2021 <https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=219291>
- Koppenhöfer A.M.** 2021. ABW still causing some trouble in here and there central and northern New Jersey. *WeevilTrak Blog*, online. August 31, 2021
<https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=220561>
- Koppenhöfer A.M.** 2021. ABW season finale and another FAW heads-up. *Weevil-Trak Blog*, online. September 23, 2021 <https://www.greencastonline.com/weeviltrak/blogs/postdetails.aspx?id=220722>

GRANTS & FUNDING

Competitive Grants – External (total \$1,812,278):

- Koppenhöfer A.M.**; German Research Assn. (DFG); \$60,000; 1993-1995; Interspecific competition between entomopathogenic nematode species.
- Koppenhöfer A.M.**, Kaya H.K.; California Dept. Food & Agricul.; \$140,000; 1996-1999; Comparison of the efficacy of biological agents against diazinon for control of Japanese beetle larvae in soil.
- Koppenhöfer A.M.**, Kaya H.K.; UC Statewide IPM Proj.; \$58,000; 1997-2000; Synergism of imidacloprid and entomopathogenic nematodes: A novel approach to white grub control.

Koppenhöfer A.M., Kaya H.K.; Elvenia J. Slosson Endowment Fund f. Horticulture; \$19,150; 1999-2000; Molluscicidal nematodes for biological control of pest slugs.

Koppenhöfer A.M.; Horticultural Research Institute; \$5,000; 2000; Increasing the efficacy and utilization of *Bacillus popilliae* for white grub control.

Polavarapu S., **Koppenhöfer A.M.**, Lashomb J.; USDA-CSREES-NE Regional IPM Special Grants Program; \$100,000; 2001-2004; Development of IPM methods for oriental beetle management in multiple crops.

Koppenhöfer A.M.; Horticultural Research Institute; \$32,000; 2002-2003; A new highly white grub-pathogenic nematode: characterization of efficacy and pertaining ecological traits.

Koppenhöfer A.M., Polavarapu S.; US Golf Assn.; \$60,774; 2003-2005; Mating disruption of oriental beetle with pheromones.

Koppenhöfer A.M.; US Golf Assn.; \$39,204; 2003-06; Sustainable white grub management with *Steinernema scarabaei*: a new highly white grub-pathogenic and –specific nematode.

Koppenhöfer A.M., Grewal P.S.; USDA-NRI CGP-Biologically Based Pest Management Program; \$191,185; 2004-2005; Optimizing white grub control with entomopathogenic nematodes: interspecific variability in host parasite interactions.

Polavarapu S., **Koppenhöfer A.M.**, Averill A.; USDA-CSREES-Pest Management Alternatives Program; \$50,000; 2004-2006; Development of IPM methods for cranberry insect pests.

Murphy J., **Koppenhöfer A. M.**; Tri-State Turf Research Foundation; \$50,000; 2004-2006; Management of Earthworms on Golf Courses in the Tri-state Metropolitan Region.

Koppenhöfer A.M.; Golf Course Superintendents Assn. of America (GCSAA) - Chapter Supported Research Prgm. (GCSANJ, LIGCSA, KAGCS); \$60,000; 2005-07; Development of biological and biorational control options for the annual bluegrass weevil.

Koppenhöfer A.M.; US Golf Assn.; \$69,532; 2006-2008; Biological and biorational control options for the annual bluegrass weevil.

Koppenhöfer A.M.; Horticultural Research Institute; \$32,000; 2006-2007; Granular sex pheromone formulations for oriental beetle mating disruption.

Cowles R.S., Vittum P., Alm S.R., **Koppenhöfer A.M.**, Heller P., Peck D.; USDA-CSREES-NE Regional IPM Special Grants Program; \$90,000; 2007-2008; Integrated management and resistance management of annual bluegrass weevil on golf course turf.

Fournier V., Lashomb J., **Koppenhöfer A.M.**, Eaves J., Meneley J., Johnson J., Gilrein D.. NE SARE; \$109,000; 2007-2010; Mating disruption for the management of oriental beetle in ornamental nurseries: A research and extension effort.

Fournier V., **Koppenhöfer A.M.**, Lashomb J.; IR4-Biopesticides Program; \$10,000; 2007; Evaluation of sex pheromone to control oriental beetle white grub in nurseries.

Koppenhöfer A.M., Fournier V. US Golf Assn.; \$19,380; 2008-2009; Optimizing oriental beetle mating disruption through a better understanding of the beetle's dispersal behaviors.

Koppenhöfer A.M., McGraw B.A.; GCSAA – Chapter Supported Research Program (GCSANJ, LIGCSA, MVGCSA); \$15,332; 2008; Development of a non-destructive sampling/monitoring program for ABW on golf course fairways.

Koppenhöfer A.M., McGraw B.A.; Tri-State Turf Res. Found.; \$5,500; 2008; Development of a non-destructive sampling/monitoring program for ABW on golf course fairways.

Rivera M.J., **Koppenhöfer A.M.**, Rodriguez-Saona C.; NE SARE Grad. Student Grants; \$14,993; 2012-13; Assessing nematode diversity in natural and managed blueberry habitats.

Koppenhöfer A.M., Kostromytska O.; GCSAA – Chapter Supported Research Program (GCSANJ, NJTF, LIGCSA, MetGCSA, HVGCSA, PTGA, KAGCS); \$47,000; 2012-2013;

Plant tolerance/resistance to ABW among bentgrasses: which cultivars are at greatest risk and which are the best for overseeding/replacement

- Koppenhöfer A.M.**, Kostromytska O., Rodriguez-Saona C. US Golf Assn.; \$49,190; 2013-2014; Advancing integrated management of annual bluegrass weevil.
- Koppenhöfer A.M.**, Kostromytska O., Rodriguez-Saona C. O.J. Noer Foundation; \$20,400; 2013-2015; Advancing integrated management of annual bluegrass weevil.
- Koppenhöfer A.M.**, Kostromytska O., Rodriguez-Saona C. Tri-State Turf Research Found.; \$18,000; 2013-2015; Advancing integrated management of annual bluegrass weevil.
- Koppenhöfer A.M.**, Kostromytska O., Rodriguez-Saona C., McGraw B.A. New York Greengrass Assn.; \$19,947; 2013-2014; Towards sustainable management of the ABW.
- Koppenhöfer A.M.**, Kostromytska O. US Golf Assn.; \$19,642; 2014-2015; Insecticide resistant ABW: Understanding, managing, and preventing a superintendent's nightmare.
- Koppenhöfer A.M.**, Kostromytska O.; GCSAA – Chapter Supported Research Prgm. (CAGCS, GCSANJ, GPGCSA, HVGCSA, LIGCSA, MetGCSA, MVGCSA, NJTA, PTGA); \$58,000; 2014-2015; Insecticide resistant ABW: Understanding, managing, and preventing a superintendent's nightmare.
- Koppenhöfer A.M.**, Kostromytska O., McGraw B.A. New York Greengrass Assn.; \$21,600; 2014-2015; Insecticide resistant annual bluegrass weevil: Understanding, managing, and preventing a superintendent's nightmare.
- Koppenhöfer A.M.**, US Golf Assn.; \$2,000; 2015; Travel grant to attend international meeting (Soc. f. Invertebrate Pathol. Mtg, Vancouver, BC, Canada).
- Koppenhöfer A.M.**, Kostromytska O., Wu S. US Golf Assn.; \$38,128; 2015-2016; Biorational control of important golf turf pests.
- Koppenhöfer A.M.**, Kostromytska O., Wu S. US Golf Assn.; \$19,960; 2016-2017; Developing optimal management programs for the annual bluegrass weevil populations with different insecticide resistance levels.
- Koppenhöfer A.M.**, Kostromytska O., Wu S.; GCSAA – Chapter Supported Res. Prgm. (CAGCS, GCSANJ, LIGCSA, MetGCSA, NJTA); \$42,500; 2016-2017; Developing optimal programs for ABW populations with different insecticide resistance levels.
- Koppenhöfer A.M.**, Kostromytska O., Wu S.; NY State Turfgrass Assn.; \$20,000; 2016-2017; Developing optimal management programs for the annual bluegrass weevil populations with different insecticide resistance levels.
- Koppenhöfer A.M.**, Kostromytska O., Wu S.; NY Greengrass Assn.; \$20,000; 2016-2017; Biological control of annual bluegrass weevil with novel formulation types and application systems for entomopathogenic fungi: microsclerotia-based formulations and hydrogels.
- Koppenhöfer A.M.**, Kostromytska O., Wu S. US Golf Assn.; \$38,976; 2017-2018; Biological control of annual bluegrass weevil with novel formulation types and application systems for entomopathogenic fungi: microsclerotia-based formulations and hydrogels.
- Elmore M.T., **Koppenhöfer A.M.**, Murphy J.A.; GCSAA; \$20,000; 2017-2018; Developing programs for annual bluegrass control in creeping bentgrass fairways using annual bluegrass weevil, plant growth regulators, and interseeding.
- Koppenhöfer A.M.**, McGraw B.A. Tri-State Turf Research Found.; \$6,000; 2017; Larvicide for annual bluegrass weevil management: effect of larval stage and insecticide resistance.
- Koppenhöfer A.M.**, McGraw B.A., Alm S.R.; US Golf Assn.; \$59,400; 2018-2019; Biorational control of annual bluegrass weevil adults and larvae with petroleum-derived spray oils and soil surfactants.

Koppenhöfer A.M., US Golf Assn.; \$2,000; 2018; Travel grant to internat. Meet. (Joint Mtg. of Entomol. Soc. of America, Canada, and British Columbia, Vancouver, BC, Canada).

Koppenhöfer A.M., US Golf Assn.; \$19,910; 2019-20; Understanding and optimizing sampling methods for the annual bluegrass weevil.

Koppenhöfer A.M., Geisert R., Sousa A.L.; O.J. Noer Found.; \$20,000; 2020-2021; Long-term suppression of turf insect pests with native persistent entomopathogenic nematodes.

Koppenhöfer A.M., Geisert R., Sousa A.L.; US Golf Assn.; \$29,865; 2020-2022; Long-term suppression of turfgrass insect pests with native persistent entomopathogenic nematodes.

Koppenhöfer A.M., Sousa A., Elmore M.T., Diehl K.A.; GCSAA – Chapter Supported Res. Prgm. (GCSANJ, LIGCSA, MetGCSA, NJTA); \$60,000; 2021-2022; Optimizing the use of annual bluegrass weevil to control annual bluegrass in creeping bentgrass fairways.

Koppenhöfer A.M., Sousa A., Elmore M.T., Diehl K.A.; Tri-State Turf Research Found.; \$20,000; 2021-22; Optimizing the use of annual bluegrass weevil to control annual bluegrass in creeping bentgrass fairways.

Competitive Grants – Internal (total \$808,963):

Koppenhöfer A.M.; Bodega Bay Marine Laboratory; \$ 610; 1994-1995; Traveling grant.

Koppenhöfer A.M.; Rutgers Center f. Turfgrass Sci.; \$75,000; 1999-2002; Interaction of plant resistance with biological control of turfgrass insect pests.

Koppenhöfer A.M.; Rutgers Center f. Turfgrass Sci.; \$8,600; 2000-2001; Neonicotinoid/-nematode combinations: alternatives for curative white grub control.

Koppenhöfer A.M.; Rutgers Research Council; \$1,050; 2001-2002; Characterization of a new white grub-pathogenic entomopathogenic nematode.

Koppenhöfer A.M.; Rutgers Center f. Turfgrass Sci.; \$87,000; 2002-2005; Development of *Steinernema scarabaei* for white grub control.

Koppenhöfer A.M.; Rutgers Center f. Turfgrass Sci.; \$51,000; 2006-2007; Granular sex pheromone formulations for oriental beetle mating disruption.

Rodriguez-Saona C., **Koppenhöfer A.M.**; PE Marucci Center f. Blueberry & Cranberry Research & Extension Prgm. Enhancement Grants; \$4,000; 2006; Optimizing the use of entomopathogenic nematodes to control root-damaging grubs in blue- and cranberries.

Koppenhöfer A.M.; Ebssa L.; Rutgers Center for Turfgrass Sci.; \$90,500; 2008-2010; Biological control of lepidopteran turfgrass pests.

Koppenhöfer A.M.; NJAES Internal Hatch Grant Awards Program; \$5,000; 2008; Developmental requirements for *Steinernema scarabaei* and its symbiotic bacterium.

Rodriguez-Saona C., **Koppenhöfer A.M.**; SEBS Intramural Awards Prgm.; \$13,203; 2009; Improving EPN attraction to oriental beetle grubs through the use of root volatiles.

Koppenhöfer A.M., Kostromytska O., Bonos S.A., Rodriguez-Saona C.; Rutgers Center f. Turfgrass Sci.; \$90,000; 2011-2012; Annual bluegrass weevil IPM: plant resistance/tolerance and semiochemicals for monitoring and management.

Koppenhöfer A.M., Kostromytska O., Rodriguez-Saona C.; Rutgers Center f. Turfgrass Sci.; \$96,000; 2013-2014; Towards sustainable management of the annual bluegrass weevil.

Koppenhöfer A.M., Kostromytska O., Wu S., Rodriguez-Saona C.; Rutgers Center f. Turf. Sci.; \$100,000; 2015-2016; Towards sustainable management of the annual bluegrass weevil.

Koppenhöfer A.M., Kostromytska O., Wu S.; Rutgers Center f. Turfgrass Sci.; \$90,000; 2017-2018; Towards sustainable management of the annual bluegrass weevil.

Koppenhöfer A.M., Kostromytska O., Wu S.; Rutgers Center f. Turfgrass Sci.; \$153,000; 2019-2021; IPM of Major Turfgrass Insect Pests with emphasis on biological control.

Grants-in-aid / contracts / agreements (to A.M. Koppenhöfer) (total \$1,224,888):

- 2000: Total: \$11,000. Bayer, \$2,000; Novartis, \$4,000; NJ Turfgrass Foundation, \$5,000.
2001: Total: \$ 6,800. Bayer, \$5,000; Syngenta, \$1,800.
2002: Total: \$31,600. Arvesta, \$7,800; Bayer, \$11,600; DuPont, \$7,200; NJ Turfgrass Foundation, \$5,000.
2003: Total: \$47,600. Arvesta, \$5,400; Bayer, \$16,000; DuPont, \$13,800; Scotts, \$3,000; SDS Biotech, \$1,000; Valent, \$8,400.
2004: Total: \$82,950. Arvesta, \$10,400; Bayer, \$14,000; DuPont, \$24,000; e~nema, \$1,000; PetroCanada, \$28,000; Scotts, \$4,550; SDS Biotech, \$1,000.
2005: Total: \$71,200. Arvesta, \$6,500; Bayer, \$13,000; DuPont, \$32,500; Lesco, \$2,000; Nisso America, \$2,100; NJ Turfgrass Foundation, \$2,000; PetroCanada, \$11,100; Phyllom, \$2,000.
2006: Total: \$89,800. Advan, \$1,950; Arysta, \$5,850; Bayer, \$7,800; Cleary, 7,500; DuPont, \$49,800; FMC, \$11,700; PetroCanada, \$5,200.
2007: Total: \$83,250. Arysta, \$8,250; Bayer, \$4,500; DuPont, \$47,750; FMC, \$12,750; Nisso America, \$3,000; NJ Turfgrass Foundation, \$7,000.
2008: Total: \$66,750. Arysta, \$3,750; Bayer, \$9,000; Certis, \$3,000; Dupont, \$18,000; FMC, \$24,750; NJ Turfgrass Found., \$3,000; Valent Biosciences, \$5,250.
2009: Total: \$29,350. Arysta, \$1,500; Dupont, \$27,850.
2010: Total: \$40,500. DuPont, \$21,000; PBI Gordon, \$19,500.
2011: Total: \$49,250. DuPont, \$27,500; PBI Gordon, \$15,000; Syngenta, \$6,750.
2012: Total: \$67,000. US Golf Assn., \$6,000; Bayer, \$6,000; DuPont, \$34,400; Syngenta, \$20,600.
2013: Total: \$53,275. Arysta, \$1,600; Phyllom, \$19,675; Syngenta, \$32,000.
2014: Total: \$114,748. Arysta, \$10,000; Bayer, \$4,800; BioWorks, \$9,000; Marrone Bio Innovations, \$18,000; Syngenta, \$59,150; Phyllom, \$13,798.
2015: Total: \$59,794. Bayer, \$7,200; BioWorks, \$5,000; Dow Agro Sci., \$3,750; FMC, \$5,600; Phyllom, \$8,194; Syngenta, \$25,900; St. Gabriel Labs, \$4,150.
2016: Total: \$50,100. Bayer, \$15,200; BioWorks, \$7,200; Dow Agro Sci., 3750; IntelliPro, \$3,900; Phyllom, \$3,400; Syngenta, \$15,650; St. Gabriel Labs, \$1,000.
2017: Total: \$54,550. Bayer, \$6,000; Dow Agro Sci, \$4,000; Phyllom, \$6,250; Syngenta, \$19,200; Sipcam, \$5,600; Suncor, \$13,500.
2018: Total: \$106,666. Bayer, \$6,500; Dow Agro Sci, \$12,650; ISK Bioscience, \$16,000; Syngenta, \$56,716; Suncor, \$10,800.
2019: Total: \$71,404. AmVac, \$18,000; ISK Bioscience, \$12,000; Syngenta, \$36,404; Suncor, \$5,000.
2020: Total: \$65,298. AmVac, \$15,000; Bayer, \$5,000; Marrone Bio Innovations, \$11,200; Syngenta, \$34,098.
2021: Total: \$78,680. AmVac, \$12,000; Bayer, \$8,000; ISK Bioscience, \$5,400; Prime Source, \$16,000; Control Solutions Inc., \$8,800; Syngenta, \$28,480.

RESEARCH PRESENTATIONS (as presenter)

Seminars (invited):

Histology, histochemistry and functions of the salivary glands of adult parasitoids. 9/15/89, Institute for Applied Zoology, Univ. Bonn, Germany.

Predators of the banana weevil. 9/20/91, Internat. Center f. Insect Physiol. and Ecol., Mbita Point, Kenya.

Microbial control of insect pests. 4/22/97, Pesticide Applicator's Seminar, Santa Rosa, CA.

Interactions between entomopathogenic nematodes and biological control agents. 6/2/97, Institute for Economic Entomology, Illinois Natural History Survey, Champaign/Urbana, IL.

Interactions between entomopathogenic nematodes and other control agents. 3/30/98, Dept. Entomology & Plant Pathology, Mississippi State Univ., Starkville, MS.

Entomopathogenic nematodes: Ecology and enhancement of biological control. 3/10/99, Dept. Nematology, Univ. California, Riverside, CA.

Biological control as a component of turfgrass IPM. 3/22/99, Dept. Entomology, Rutgers Univ., New Brunswick, NJ.

Beyond the Japanese beetle: Entomopathogenic nematodes for the management of tough grubs. 1/22/01, Dept. Nematology, Univ. California, Davis, CA.

Wonderworm, synergism, and mating disruption – recent developments in white grub IPM. 4/21/03, Dept. Entomology, NYSAES, Cornell Univ., Geneva, NY.

White grub IPM: nematodes, synergism, and pheromones. 4/22/03, Dept. Entomology, Cornell Univ., Ithaca, NY.

White grub IPM: nematodes, synergism, endophytes, pheromones. 9/15/03, Dept. Entomology, Univ. Massachusetts, Amherst, MA.

White grub IPM: Nematodes, synergism, endophytes, mating disruption. 9/29/03, Citrus Research & Education Center, Univ. Florida, Lake Alfred, FL.

White grub IPM: Nematodes, synergism, endophytes, mating disruption. 9/30/03, Dept. Entomology & Nematology, Univ. Florida, Gainesville, FL.

Alternatives to chemical insecticides for white grub management in turfgrass. 2/8/08, Dept. Entomology, Univ. Maryland, College Park, MD.

Seminars (departmental):

Integrated control of the banana weevil. 11/15/93, Dept. Nematology, Univ. California, Davis.

Coexistence of entomopathogenic nematodes species. 6/6/94, Dept. Nematology, Univ. California, Davis, CA.

Do stressors enhance biological control? 3/16/98, Dept. Nematol., Univ. California, Davis, CA.

White grub IPM: Nematodes, synergism, and mating disruption. 9/12/03, Dept. Entomology, Rutgers Univ., New Brunswick, NJ.

Alternatives for white grub management in turfgrass. 9/12/08, Dept. Entomology, Rutgers Univ., New Brunswick, NJ.

Toward sustainable management of the annual bluegrass weevil. 4/17/15, Dept. Entomology, Rutgers Univ., New Brunswick, NJ.

Scientific meetings (Invited speaker):

The BMZ - Banana Project at the ICIPE. 11/12/91, Internat. Workshop Biol. & Integr. Contr. Highland Banana & Plantain Pests & Diseases, International Institute for Tropical Agriculture, Cotonou, Benin.

Search for natural enemies of the banana weevil. 11/13/91, Internat. Workshop Biol. & Integr. Contr. Highland Banana & Plantain Pests & Diseases, IITA, Cotonou, Benin.

Cultural control of the banana weevil. 11/13/91, Internat. Workshop Biol. & Integr. Contr. Highland Banana & Plantain Pests & Diseases, IITA, Cotonou, Benin.

Interactions between entomopathogenic nematode species and other pathogens. Symposium 'Pathogen Interactions'. 8/26/97, 30th Ann. Meet. Soc. Invertebr. Pathol., Banff, Canada.

Effect of behavior and environment on entomopathogenic nematodes in the field. 2/22/00, Symposium 'Field Application of pathogens for insect management', ESA Eastern Branch Meet., Springfield, MA.

Enhancing biological control of turfgrass insect pests: white grubs, entomopathogenic nematodes, imidacloprid. 1/14/00, 9th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Interactions btw. entomopathogenic nematodes and other agents. Symp. 'EPNs and their bacteria.' 8/15/00, 33rd Ann.Meet.Soc. Invertebr. Pathol., Guanajuato, Mexico.

Integrated and biological white grub management. 1/12/01, 10th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Entomopathogenic nematodes for the control of tough grubs: Oriental beetle and its cronies. 3/5/01, Symposium 'Biological Control of Scarabaeidae', Northeast Working Group on Biological Control, ESA Eastern Branch Meet., Harrisburg, PA.

Interaction of entomopathogenic nematodes and other control agents for control of scarabs. 3/30/01, Workshop Ecology and Management of Scarabaeidae, Univ. Arizona, Maricopa, AZ.

Ecology of natural entomopathogenic nematode populations. Symposium 'Ecological adaptations of entomopathogenic nematodes.' 8/28/01, 34th Ann. Meet. Soc. Invertebr. Pathol., Norwijkerhout, The Netherlands.

Integrated white grub control. 1/11/02, 11th Ann. Rutgers Turfgr. Symp., New Brunswick, NJ.

Turfgrass entomology at Rutgers. 1/18/02, 'Discover Rutgers Entomology' Symp., New Brunswick, NJ.

Emerging white grub pests. 6/5/02, Centers of Influence Turf & Ornamental Mtg, Braselton, GA.

Advances in the use of entomopathogenic nematodes for the management of scarab pests. Symposium 'Entomopathogenic Nematodes: Current Status.' 8/20/02, 35th Ann. Meet. Soc. Invertebr. Pathol., Foz do Iguassu, Brazil.

Wonderworm and no sex – Bad times for grubs. 1/10/03, 12th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Steinernema scarabaei, a new highly white grub-pathogenic and –specific nematode: ecology and efficacy. 5/27/03, 9th Europ. Meet. IOBC/WPRS Working Group, Salzau, Germany.

Sustainable white grub management with *Steinernema scarabaei*. 7/17/03, US Golf Assn. workshop 'Integrated Turf Management', East Lansing, MI.

Tri- and tetratrophic level effects on entomopathogenic nematodes. Symposium 'Trophic level interaction involving insect pathogens', 7/28/03, 36th Ann. Meet. Soc. Invertebr. Pathol., Burlington, VT.

Successes and Failures: Turfgrass and pastures. 9/7/03, 3rd Internat. Sympos. Entomopath. Nematodes and Symbiotic Bacteria, Wooster, OH.

Wonderworm – curative control and long-term suppression of white grubs with *Steinernema scarabaei*. Symposium 'Alternative Management Practices for Turf & Ornamental Pests'. 10/26/03, ESA Ann. Meeting, Cincinnati, OH.

Sublethal effects of soil insecticides on entomopathogenic nematode-soil insect interactions. Symposium 'Turf Insects and the Soil Environment: A Tribute to Michael G. Villani (1953-2001). 10/27/03, ESA Ann. Meeting, Cincinnati, OH.

White grub management with nematodes and pheromones. 1/16/04, 13th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Mating disruption of oriental beetle with pheromones. 7/7/04, US Golf Assn. workshop 'Integrated Turf Management', Lexington, KY.

Turfgrass insect management research. Tour of the Rutgers Turfgrass Facilities. 7/13/04, Northeast Branch Meet. Am. Soc. Agron. and Soil Sci. Soc. of America, Bordentown, NJ.

New Developments in the management of turfgrass insects. Symp. Recent Advances in Turfgrass Science. 7/14/04, Northeast Branch Meet. Am. Soc. Agron. and Soil Sci. Soc. America, Bordentown, NJ.

Biological control of white grubs in blueberries and cranberries. Sridhar Polavarapu Memorial Symposium. 9/18/04, Bordentown, NJ.

Sustainable white grub management with *Steinernema scarabaei*. 1/14/05, 14th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

New developments in white grub IPM. Northeastern Regional Community and Urban IPM Conference. 3/16/05, Manchester, NH.

Nematodes for white grub management in blueberries and cranberries. Symposium 'New Developments in small fruit IPM.' 3/21/05, ESA Eastern Branch Meeting, Harrisburg, PA.

Recycling and long-term persistence of entomopathogenic nematodes. Symp. Ecology of Entomopathogenic Nematodes. 8/11/05, 38th Ann. Meet. Soc. Invertebr. Pathol., Anchorage, AK.

Steinernema scarabaei for sustainable white grub management. 9/21/05, US Golf Assn. workshop 'Integrated Turf Management', Atlanta, GA.

Management of the annual bluegrass weevil on golf courses: developing new approaches. 1/13/06, 15th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Mating disruption of oriental beetle. 5/2/06. 3rd International Scarab Workshop, Fresno, CA.

S. scarabaei for white grub management. 5/3/06. 3rd Internat. Scarab Workshop, Fresno, CA.

Steinernema scarabaei for sustainable white grub management. 7/27/06, US Golf Assn. workshop, North Brunswick, NJ.

Mating disruption of oriental beetle in turfgrass. Symp. 'Integr. Approaches for Prevention and Management of Invasive Pests of Ornamentals and Turf.' 12/10/06, ESA Ann. Meet., Indianapolis, IN.

Entomopathogenic nematode use and potential in turfgrass. Symp. 'Microbial Control of Landscape pests: progress and challenges.' 3/12/07, National Turfgrass Entomology Workshop and Microbial Control Regional Project Meeting, Wooster, OH.

Combination of entomopathogenic nematodes with other control agents for the management of white grubs in turfgrass. Symposium 'Current Situation on the Biological Control of Turfgrass Insects.' 8/14/07, 40th Ann. Meet. Soc. Invertebr. Pathol., Quebec City, Canada.

Host behavioral response. Symposium 'Entomopathogenic Nematode Ecology.' 8/16/07, 1st Int. Forum on Entomopath. Nematodes and Symbiotic Bacteria & 40th Ann. Meet. Soc. Invertebr. Pathol., Quebec City, Canada.

Synergistic interaction of neonicotinoids with biological control agents. Symposium 'Neonicotinoid insecticides: exposing and navigating their multifaceted ramifications for pest management in turf and ornamentals. 12/9/07, ESA Ann. Meeting, San Diego, CA.

Development of mating disruption technology for the oriental beetle. 1/11/08, 17th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Successes and failures in the use of entomopathogenic nematodes for pest control. Symp. 'Entomopathogenic Nematodes.' 8/27/08, 22nd Congr. Brasileiro de Entomol., Uberlândia, Brazil.

White grub and nematode population dynamics after application of *Steinernema scarabaei* for white grub management. Symposium 'The changing nature of pest management for ornamentals and turfgrass.' 12/16/08, ESA Ann. Mtg. Reno, NV.

Oriental beetle mating disruption. Symp. 'Recent Advances in Turfgrass Insect Management in the Northeast.' 3/21/09, ESA Eastern Branch Meet., Harrisburg, PA.

White grub management with entomopathogenic nematodes. Symp. 'Recent Advances in Turfgrass Insect Management in the Northeast.' 3/21/09, ESA East. Br. Mtg., Harrisburg, PA.

Spatio-temporal nematode-host interactions in turfgrass. Symp. 'Ecological interactions in entomopathogenic nematodes.' 8/20/09, 42nd Ann. Meet. Soc. Invertebr. Pathol., Park City, UT.

From ecology to application: integrating entomopathogenic nematodes into turfgrass management. Symp. 'Honouring Lerry Lacey and Harry Kaya.' 8/10/11, 44th Ann. Meet. Soc. Invertebr. Pathol., Halifax, Canada.

Entomopathogenic nematodes in for the long haul: classical and conservation biological control. Symp. 'Persistence of microbial control agents: current challenges, recent advancements and future needs.' 11/11/12, ESA Ann. Mtg. Knoxville, TN.

Advancing integrated management of the annual bluegrass weevil. 1/17/14, 23rd Ann. Rutgers Turfgrass Symp. New Brunswick, NJ.

Insecticide resistance in the annual bluegrass weevil. 5/15/14, Syngenta Turf Entomol. Mtg., Annapolis, MD.

Advancing integrated management of annual bluegrass weevil. 6/4/2014, US Golf Assn. workshop 'Integrated Turf Management', Atlanta, GA.

Towards sustainable management of the annual bluegrass weevil. Symp. 'Advances in pest management for turfgrass and ornamentals.' 11/16/14, ESA Ann. Mtg., Portland, OR.

Integrating insect pathogens into management of turfgrass pests. Symp. 'Thinking outside the box: entomopathogens in IPM programs.' 11/18/14, ESA Ann. Mtg., Portland, OR.

Advancing integrated management of the annual bluegrass weevil. 1/16/15, 24th Ann. Rutgers Turfgrass Symp. New Brunswick, NJ.

EPNs from lab to field against insect pests in fine turfgrass: overcoming obstacles in research and implementation. 8/12/15, 48th Ann. Meet. Soc. Invertebr. Pathol., Vancouver, Canada.

Advances in the use of entomopathogenic nematodes for white grub management. Symp. 'Research advances in root-feeding insect pests and their management.' 11/15/15, ESA Ann. Mtg., Minneapolis, MN.

Case studies on host-pathogen relationships: *S. scarabaei* - turf system. Symp. 'Advances in the behavioral ecology of EPNs.' 9/27/16, Int. Congr. Entomol., Orlando, FL.

Annual bluegrass weevil pyrethroid-resistance level and insecticide performance. 12/14/16, 1st WeevilTrak/ABW Meeting, Avon, CT.

Understanding and managing insecticide resistance in the annual bluegrass weevil. 1/13/2017, 26th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Reproductive diapause in the annual bluegrass weevil. 1/13/2018, 27th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Diagnosis and management of insecticide resistance in annual bluegrass weevil. 1/11/2019, 28th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Scientific meetings (Contributed presentations):

Predators of the banana weevil in Kenya. 6/24/92, 20th Workshop on Plant Protec. Tropics Subtropics, German Soc. Plant Pathol., Leipzig, Germany.

Interspecific competition and coexistence in Steinernematid nematode species in soil. 8/30/94, 27th Ann. Meet. Soc. Invertebr. Pathol., Montpellier, France.

Penetration efficacy of IJs of entomopathogenic nematode species at different soil depths and moistures. 8/30/94, 27th Ann. Meet. Soc. Invertebr. Pathol., Montpellier, France.

Persistence of entomopathogenic nematodes (Steinernematidae and Heterorhabditidae) within host cadavers in dry soil. 7/24/95, 28th Ann. Meet. Soc. Invertebr. Pathol., Ithaca, NY.

Effect of nematophagous fungi on an entomopathogenic nematode originating from the same site in northern California. 7/24/95, 28th Ann. Meet. Soc. Invertebr. Pathol., Ithaca, NY.

Control of the tenlined June beetle with entomopathogenic nematodes. 12/1/95, 23rd Almond Industry Conference, Modesto, CA.

Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for scarab grub control. 9/4/96, 29th Ann. Meet. Soc. Invertebr. Pathol., Cordoba, Spain.

Estimating entomopathogenic nematode densities in soil using correlation of bait insect mortality and nematode penetration. 9/4/96, 29th Ann. Meet. Soc. Invertebr. Pathol., Cordoba, Spain.

Control of the tenlined June beetle with entomopathogenic nematodes. 12/4/96, 24th Almond Industry Conference, Modesto, CA.

Additive and synergistic interaction between entomopathogenic nematodes and *Bacillus thuringiensis* for scarab grub control. 12/8/96, ESA Ann. Meet., Louisville, KY.

Synergism between entomopathogenic nematodes and imidacloprid: A novel approach for white grub control in turfgrass. 8/25/97, 30th Ann. Meet. Soc. Invertebr. Pathol., Banff, Canada.

Synergism of imidacloprid and entomopathogenic nematodes against white grubs. 11/11/98, ESA Ann. Meet., Las Vegas, NV.

Effect of crop management practices on entomopathogenic fungi and nematodes. 12/14/99, ESA Ann. Meet., Atlanta, GA.

Ecological characteristics and efficacy of a new highly pathogenic white grub nematode. 11/20/02, ESA Ann. Meet., Ft. Lauderdale, FL.

Steinernema scarabaei: ecology and efficacy against white grubs. 7/29/03, 36th Ann. Meet. Soc. Invertebr. Pathol., Burlington, VT.

Mating disruption of oriental beetle in turfgrass. 11/17/04, ESA Ann. Meet., Salt Lake City, UT.

Entomopathogenic nematodes and mating disruption for white grub control. 2/20/06, National Turfgrass Entomology Workshop, Clayton, NC.

Annual bluegrass weevil research update. 4/19/06, NE 1025 Turfgrass Regional Research Project Meeting, North Brunswick, NJ.

Biological control of the annual bluegrass weevil. 5/8/07, NE 1025 Turfgrass Regional Research Project Meeting, Geneva, NY.

Unravelling interspecific variability in virulence of four entomopathogenic nematodes to 4 white grub species: virulence, infectivity, penetration sites. 8/5/08, 41st Ann. Meet. Soc. Invertebr. Pathol., Warwick, UK.

Annual bluegrass weevil Best Management Practices. 4/20/12, NE 1046 Turfgrass Multistate Research Project Meeting, Storrs, CT.

Annual bluegrass weevil IPM. 6/10/13, NE 1046 Turfgrass Multistate Research Project Meeting, Beltsville, MD.

Storage temperature and duration affect *Steinernema scarabaei* dispersal and attraction, virulence, and infectivity to a white grub host. 8/12/13, 46th Ann. Mtg. Soc. Invertebr. Pathol., Pittsburgh, PA.

Entomopathogenic nematodes for the management of black cutworm on golf course turf. 8/20/13, National Turfgrass Entomology Workshop, South Kingstown, RI.

Advancing integrated management of the annual bluegrass weevil. 6/23/14, NE 1046 Turfgrass Multistate Research Project Meeting, Amherst, MA.

Annual bluegrass weevil IPM. 3/28/16, NE 1046 Turfgrass Multistate Research Project Meeting, State College, PA.

Synergistic combinations of an emulsifiable formulation of *Beauveria bassiana* and a pyrethroid insecticide against insecticide resistant annual bluegrass weevil, *Listronotus maculicollis*, adults. 7/27/2016, 49th Ann. Mtg. Soc. Invertebr. Pathol., Tours, France.

Pyrethroid-resistance level affects performance of larvicides and adulticides from different insecticide classes in populations of the annual bluegrass weevil. 11/11/18, ESA Ann. Mtg., Vancouver, BC, Canada.

Metarhizium brunneum F52 microsclerotia for the management of annual bluegrass weevil: effects of fungicides, imidacloprid, and hydrogel. 7/31/2019, 52nd Ann. Mtg. Soc. Invertebr. Pathol., Valencia, Spain.

Poster presentations:

Zur Morphologie, Histologie und Histochemie der Mandibulardrüsen von *Diadegma semiclausum* (Hymenoptera: Ichneumonidae). German Soc. Gen. Appl. Entomol., Jena, Germany, 3/24/93.

Reduktion von Populationen des Bananenrüsslers *Cosmopolites sordidus* Germar (Col. Curcul.) mittels Pseudostammfallen. German Soc. Gen. Appl. Entomol., Jena, Germany, 3/26/93.

Control of the tenlined June beetle with entomopathogenic nematodes. 23rd Almond Industry Conference, Modesto, CA, 12/1/95.

Control of the tenlined June beetle with entomopathogenic nematodes. 24th Almond Industry Conference, Modesto, CA, 12/4/96.

Enhancing entomopathogenic nematodes for white grub control. CA Conf. Biol. Control. 6/10/98, Berkeley, CA.

Temperature and nutrition affect *Steinernema feltiae* infective juvenile's body length, 34th Ann.Meet.Soc. Invertebr. Pathol., Norwijkerhout, The Netherlands, 8/26/01.

Developmental temperature and length of *Steinernema feltiae* juveniles (Nematoda: Steinernematidae). Ann. Meet. Soc. Nematol., Salt Lake City, UT, 8/29/01.

Integrated control of white grub turfgrass pests. 1/11/02, 11th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Integrated control of white grubs. 1/18/02, 'Discover Rutgers Entomology' Symp., New Brunswick, NJ.

Mating disruption of oriental beetle in turfgrass. 10/28/03, ESA Ann. Meeting, Cincinnati, OH.

Effect of soil type and soil moisture on efficacy and persistence of the entomopathogenic nematode *Steinernema scarabaei*. 11/17/04, ESA Ann. Meet., Salt Lake City, UT.

A phylogenetic analysis of the entomopathogenic nematode symbiont, *Xenorhabdus*, based on *gyrB* gene sequences. 11/17/04, ESA Ann. Meet., Salt Lake City, UT.

Release of oriental beetle (Coleoptera: Scarabaeidae) sex pheromone from wax-based granules under laboratory and field conditions. 12/12/06, ESA Ann. Meeting, Indianapolis, IN.

Calcium silicate and calcium carbonate silicate amendments for white grub suppression. 1/11/08, 17th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Effects of endemic and released entomopathogenic nematodes on annual bluegrass weevil populations in golf course fairways. 12/19/08, ESA Ann. Mtg., Reno, NV.

Effect of endemic and released entomopathogenic nematodes on annual bluegrass weevil populations in golf course fairways. 1/12/09, 18th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Biological control of black cutworm on golf course turf. 1/11/10, 19th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Biological control of black cutworm on golf course turf. 1/14/11, 20th Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Role of volatiles in host recognition and preference by *Listronotus maculicollis* (Coleoptera: Curculionidae). 11/13/12, ESA Ann. Meeting, Knoxville, TN.

Role of volatiles in host recognition and preference by *Listronotus maculicollis* (Coleoptera: Curculionidae). 1/11/13, 21st Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Entomopathogenic nematodes for the management of black cutworm, *Agrotis ipsilon*, in golf course turfgrass: from lab to optimization in the field. 8/13/2013, 46th Ann. Mtg. Soc. Invertebr. Pathol., Pittsburgh, PA.

Host plant resistance and tolerance to Annual bluegrass weevil. 1/17/14, 23rd Ann. Rutgers Turfgrass Symposium, New Brunswick, NJ.

Insecticide resistance and cross-resistance in field populations of the of the annual bluegrass weevil, *Listronotus maculicollis* Dietz, from the Northeast. 11/19/14, ESA Ann. Mtg., Portland, OR.

Annual bluegrass weevil insecticide resistance and cross-resistance. 1/16/15, 24th Ann. Rutgers Turfgrass Symposium. New Brunswick, NJ.

Optimizing the efficacy of entomopathogenic nematodes for the control of annual bluegrass weevil, *Listronotus maculicollis*, larvae. 7/27/16, 49th Ann. Mtg. Soc. Invertebr. Pathol., Tours, France.

Entomopathogenic nematodes for the control of annual bluegrass weevil, *Listronotus maculicollis*, larvae: optimizing efficacy through split applications and combinations with imidacloprid. 1/13/2017, 26th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Microsclerotial formulation of the entomopathogenic fungus *Metarhizium brunneum* for annual bluegrass weevil management: efficacy and compatibility with fungicides. 1/10/2020, 29th Ann. Rutgers Turfgrass Symp., New Brunswick, NJ.

Understanding and optimizing sampling methods for the annual bluegrass weevil. 3/18/2021, 30th Ann. Rutgers Turfgrass Symp., New Brunswick.

EXTENSION PRESENTATIONS

Out-of-State Extension Presentations:

2003:

12/11/03, Ohio Turfgr. Conf., Columbus, OH. Grub control in lawns.
 12/11/03, Ohio Turfgr. Conf., Columbus, OH. Insect biocontrols in lawns.

2004:

3/3/04, New England Turfgr. Conf., Providence, RI. Effective grub control.
 3/3/04, New England Turfgr. Conf., Providence, RI. What's working on lawns.
 3/23/04, Long Island GCSA Educ. Mtg., East Norwich, NY. IPM for white grubs in turfgrass

2005:

1/12/05, East. PA Turf. Conf., Valley Forge, PA. Oriental beetle, an emerging turfgrass pest.
 1/12/05, Eastern PA Turfgr. Conf., Valley Forge, PA. Biological control of turfgrass pests.

1/18/05, Maryland Turfgr. Conf., Baltimore, MD. Biology and management of the oriental beetle, an emerging pest in the Northeast,
1/18/05, Maryland Turfgr. Conf., Baltimore, MD. Insect control options using biorationals.
3/2/05, Western PA Turfgr. Conf., Pittsburgh, PA. White grubs on golf courses: what's new?
3/2/05, Western PA Turfgr. Conf., Pittsburgh, PA. Pittsburgh, PA. Biological control of turfgrass insect pests,
8/16/05, NOFA (Northeast Organic Farming Association) Organic Lawn & Turf Course, Manchester, CT. White grub management in organic lawn care.

2006:

10/19/06, Long Island Golf Course Superint. Assn. Educ. Mtg., Old Westbury, NY. Biological control of the annual bluegrass weevil.

2007

3/1/07, Pocono Turf Supply Customer Mtg., Horsham, PA. Annual bluegrass weevil and other important golf course insect pests: update on biology and IPM, Keynote address.

2008:

2/12/08, Landscape Contractors Assn. (MD, DC, VA) Winter Workshop, Ellicott City, MD. Turfgrass insect management: the white grub complex.

3/2/08, New England Turfgr. Conf., Providence, RI. Turfgrass insects of New England.

2009:

1/6/09, Eastern Pennsylvania Turfgr. Conf., Valley Forge, PA. Biological insect control.

1/7/09, Eastern PA Turfgr. Conf., Valley Forge, PA. White grubs: comprehensive control approaches.

2010:

1/14/10, Eastern Pennsylvania Turfgr. Conf., Valley Forge, PA. Insecticide product update.

1/20/10, Univ. Massachusetts Winter Lawn and Turf Workshop, Stockbridge, MA. Alternative management materials for turfgrass insect pests.

10/21/10, Austrian Greenkeepers Assn. Ann. Mtg., Lengbach, Austria. New synthetic insecticides for the control of insect pests.

10/22/10, Austrian Greenkeepers Assn. Ann. Mtg., Lengbach, Austria. Biological control of turfgrass insect pests on golf courses.

2014:

2/26/14, Western PA Turfgr. Conf., Mars, PA. Control of white grubs in home lawns.

2/26/14, Western PA Turfgr. Conf., Mars, PA. Using insecticides more effectively by targeting multiple species with the right rate at the right time.

2/27/14, Western PA Turfgr. Conf., Mars, PA. Annual bluegrass weevil control.

2015:

1/13/15, Greater Pittsburgh Golf Course Superintendents Assn. Edu. Sem., Mars, PA. 4 hr GCSAA Seminar: Managing Golf Turf Insects.

1/14/15, Greater Pittsburgh Golf Course Superintendents Assn. Edu. Sem., Mars, PA. Annual bluegrass weevil: biology, monitoring and management.

2/5/15, Long Island Golf Course Superint. Assn. Educ. Mtg., Farmingdale, NY. Towards sustainable management of the annual bluegrass weevil.

2/11/15, NY State Turfgr. Assn., Southeast Regional Conf., Fishkill, NY. Annual bluegrass weevil: biology, monitoring and management.

2/11/15, NY State Turfgr. Assn., Southeast Regional Conf., Fishkill, NY. Effective insecticide use: targeting multiple species with the right rate of the right AI at the right time

2016:

- 1/6/2016, Eastern Pennsylvania Turfgr. Conf., Valley Forge, PA. Towards sustainable management of the annual bluegrass weevil.
- 1/6/2016, Eastern PA Turfgr. Conf., Valley Forge, PA. Alternatives to chemical insecticides for turf insect management: What works and what doesn't?
- 1/12/2016, CT Assn. of GC Superintendents, Edu. Sem., Groton, CT. Sustainable ABW management: how to avoid creating resistance and how to deal with resistant weevils.
- 2/18/2016, Pocono Turfgr. Assn. Edu. Sem, Drums, PA. Don't get them angry: Sustainable ABW management.
- 2/24/16, Western PA Turfgr. Conf., Monroeville, PA. Biological and biorational control of turf insect pests.
- 2/25/16, Western PA Turfgr. Conf., Monroeville, PA. Insecticide resistance in ABW: how to avoid it and how to deal with it.
- 11/17/2016, MetGCSA & Connecticut Assn. of GC Superintendents, Educ. Sem. Don't get them angry: Avoiding and managing insecticide resistance in ABW, Fairfield, CT.

2017:

- 1/26/17, NY State Turfgr. Assn., Southeast Regional Conf., Fishkill, NY. Angry annual bluegrass weevil: insecticide resistance in ABW, how to deal with it, and how to avoid it.
- 3/9/17, New England Turfgr. Conf., Providence, RI. Biological control options for lawn and landscape turf.
- 3/9/17, New England Turfgr. Conf., Providence, RI. ABW pesticide resistance management.
- 8/13/17, 2nd Ag Innovations Conference: Microbial Control, San Diego, CA. Microbial control of weevil pests in turfgrass.
- 11/14/17, Harrell's Educational Seminar, West Boylston, MA. Angry annual bluegrass weevil: insecticide resistance in ABW, how to deal with, and how to avoid it.

2019:

- 1/30/19, NYS Turfgr. Assn., Southeast Regional Conf., Monticello, NY. ABW: TESH Research Update & New Control Methods.
- 1/30/19, NYS Turfgr. Assn., Southeast Region. Conf., Monticello, NY. Managing insects and IPM.
- 12/3/19, OH Turfgr. Conf. & Show, Columbus, OH. Biological and biorational insect control options for the environmentally sensitive homeowner.
- 12/3/19, OH Turfgr. Conf. & Show, Columbus, OH. Sustainable management of ABW: a pest that will come back with a vengeance if pushed too hard.
- 12/4/19, OH Turfgr. Conf. & Show, Columbus, OH. IPM of sports field insect problems.

2020:

- 1/14/20, Greater Pittsburgh Golf Course Superintendents Assn. Edu. Sem., Mars, PA. 4 hr GCSAA Seminar: Managing Turf Insects.
- 1/15/20, Greater Pittsburgh Golf Course Superintendents Assn. Edu. Sem., Mars, PA. Sustainable ABW management in view of insecticide resistance issues.
- 1/24/20, Eastern PA Turfgr. Conf., East Earl, PA. All you ever wanted to know about white grubs and their management.

- 1/24/20, Eastern PA Turfgr. Conf., East Earl, PA. Don't get them angry: avoiding and managing insecticide resistance in ABW.
- 2/20/20, Ontario Turfgrass Symposium, Guelph, Canada, Sustainable insect management strategies in turf.
- 2/20/20, Ontario Turfgrass Symposium, Guelph, Canada, Sustainable ABW management in view of insecticide resistance issues.

2021:

- 3/18/21, GREEN GTBOP Webinar Series., Univ. of Georgia, GA. Optimizing the use of insect-pathogenic nematodes for turfgrass insect pest management.

2022:

- 2/17/22, Long Island GCSA Education Webinar Series. ABW: Can we turn the old foe into a nuisance with benefits?
- 3/8/22, New England Turfgr. Conf., Providence, RI. 4 hr Seminar: Turfgrass Insects of New England and their Management.
- 3/9/22, New England Turfgr. Conf., Providence, RI. Optimizing monitoring and management of ABW.

County and Statewide Extension Presentations:

1999:

- 12/7/99, NJ Green Expo, Atlantic City, NJ. IPM for School Grounds: Pros and Cons.
- 12/9/99, NJ Green Expo, Atlantic City, NJ. Understanding the white grub complex.

2000:

- 1/10/00, North Jersey Ornamental Horticult. & Turf Day, Randolph, NJ. Turfgrass Insect Pests: New chemistry, biocontrol, and interactions.
- 3/8/00, Central Jersey Turf & Ornam. Institute, Freehold, NJ. White grubs: ID, biological control and IPM.
- 3/9/00, Central Jersey Turf & Ornam. Institute, Jamesburg, NJ. White grubs: ID, biological control and IPM.
- 5/5/00, Lou Vasvary Memorial In-Service Training, New Brunswick, NJ. New materials and IPM approaches in landscapes.
- 8/2/00, Landscape Turf Res. Field Day, Adelphia, NJ. Major insect pests of landscape turf: Tips on ID & control.
- 12/13/00, NJ Green Expo, Atlantic City, NJ. Integrated and biological control of turfgrass insects: Research update.

2001:

- 1/8/01, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. IPM f. Turf Insect Pests.
- 2/12/01, South Jersey Landscapers Assn. Edu. Workshop, May's Landing, NJ. Turf insect management.
- 4/17/01, Turf Club Managers Assn. Update, North Brunswick, NJ. Turfgrass Entomology Research at Rutgers.
- 8/1/01, Landscape Turf Res. Field Day, Adelphia, NJ. Major insect pests of landscape turf: Tips on ID & control.
- 10/10/01, National County Agents Turf Tour, East Brunswick, NJ. Turfgrass Entomology Research at Rutgers.

11/1/01, GC Superintendents Assn. of NJ Edu. Sem., Bedminster, NJ. The white grub complex: biology, ecology and management,
12/11/01, NJ Green Expo, Atlantic City, NJ. Insect control: choices and timing.
12/12/01, NJ Green Expo, Atlantic City, NJ. Insect pests in lawn & landscape.

2002:

1/14/02, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Turf Insect Management.
3/5/02, Central Jersey Turf & Ornam. Institute, Freehold, NJ. Turf insect management: the usual and the unusual.
3/6/02, Central Jersey Turf & Ornam. Institute, Jamesburg, NJ. Turf insect management: the usual and the unusual.
3/6/02, Cultivated Sod Assn. of NJ, Edu. Mtg., Jamesburg, NJ. Insect control strategies in sod production.
4/19/02, Ag Agent Tour, Rutgers Hort. Farm, East Brunswick, NJ. Turfgr. Entomol. at Rutgers.
7/31/02, Landscape Turf Res. Field Day, Adelphia, NJ. Major insect pests of landscape turf.
12/12/02, NJ Green Expo, Atlantic City, NJ. Bugs beyond grubs.
12/12/02, NJ Green Expo, Atlantic City, NJ. Understanding and controlling white grubs.

2003:

7/31/03, Cultivated Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. ID & control of turf insect pest.
8/5/03, Sports Field Mgers Assn. of NJ Field Day, Paramus, NJ, White grub control strategies.
10/4/03, NJ Statewide Master Gardener Conf., New Brunswick, NJ. White grubs: a perennial issue in New Jersey lawns.
12/9/03, NJ Green Expo, Atlantic City, NJ. Proven programs for success: insect management.

2004:

1/5/04, North Jersey Ornam. Horticult. & Turf Day, Paramus, NJ. Bugs beyond grubs.
1/22/04, RCE Garden Center / Interior Plantscape Training Prgm., Bridgewater, NJ. The biology and control of common turf insects.
2/24/04, Central Jersey Turf & Ornam. Institute, Hamilton, NJ. Turfgrass insect IPM.
2/25/04, NJ Landscape Conf., Secaucus, NJ. Turf Insect Management.
4/29/04, Golf Course Superintendents Assn. of NJ Edu. Sem., Manahawkin, NJ. New Developments in White Grub IPM for Golf Courses,
7/28/04, Landscape Turf Res. Field Day, Adelphia, NJ. Update on turf entomology research.
7/28/04, Cultivated Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. Insect resistance and tolerance in cool-season turfgrasses.
8/4/04, Seed Company Turf Tour, East Brunswick, NJ, Turf Entomology Research at Rutgers.
12/1/04, NJ Pest Control and Soil Fertility Conf., Mt. Holly, NJ. The white grubs complex and its management in New Jersey.
12/7/04, NJ Green Expo, Atlantic City, NJ. Turf insect pests: what we learned from this year.
12/8/04, NJ Green Expo, AC, NJ. Annual bluegrass weevil: expanding pest or just banner year?

2005:

1/3/05, North Jersey Ornamental Horticult. & Turf Day, Morristown, NJ. Common turf insect pest and their control.
12/7/05, NJ Green Expo, Atlantic City, NJ. Annual bluegrass weevil: research update.

2006:

1/17/06, North Jersey Ornam. Horticult. & Turf Day, Morristown, NJ. Management of major turfgrass insect pest.

2/28/06, Central Jersey Turf & Ornam. Institute, Freehold, NJ. An integrated approach to scarab management.
3/1/06, Central Jersey Turf & Ornam. Institute, Hamilton, NJ. An integrated approach to scarab management.
5/17/06, Rutgers Snyder Farm Lawn Care Clinic, Pittstown, NJ. White grubs in home lawns.
8/2/06, Landscape Turf Res. Field Day, Adelphia, NJ. Update on turf entomology research.
8/3/06, Fine Turf Res. Field Day, North Brunswick, NJ. Chemical and biological control of the annual bluegrass weevil.
9/28/06, Cultivated Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. Biological and chemical control of white grubs.
12/5/06, NJ Green Expo, Atlantic City, NJ. Developing a total turf insect management program.
12/6/06, NJ Green Expo, Atlantic City, NJ. Programs you can use to control grubs.
12/6/06, NJ Green Expo, Atlantic City, NJ. Insect management update for sports fields.
12/7/06, NJ Green Expo, Atlantic City, NJ. Current perspectives & future directions for combating the annual bluegrass weevil.

2007:

1/9/07, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Biocontrol of turf insects.
1/18/07, Central Jersey Turf & Ornam. Institute, Somerset, NJ. Management of surface-feeding insects in turf.
5/15/07, RU Snyder Farm Lawn Care Clinic, Pittstown, NJ. Insect management in home lawns.
7/31/07, Landscape Turf Res. Field Day, Adelphia, NJ. Update on turf entomology research.
8/1/07, Fine Turf Res. Field Day, North Brunswick, NJ. Chemical and biological control of the annual bluegrass weevil.
10/2/07, Cultiv. Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. Update on turf entomology research.
12/4/07, NJ Green Expo, AC, NJ. Biological and biorational controls for turfgrass insects.
12/5/07, NJ Green Expo, Atlantic City, NJ. The top 4 insect pests of landscape turf.

2008:

1/8/08, North Jersey Ornamental Horticult. & Turf Day, Randolph, NJ. Taking the complexity out of the white grub complex.
2/14/08, South Jersey Landscapers Assn. Edu. Workshop, May's Landing, NJ. Management of the white grub complex in NJ turfgrass.
2/14/08, South Jersey Landscapers Assn. Edu. Workshop, May's Landing, NJ. Management of surface feeding insect pests in NJ turfgrass.
2/20/08, Central Jersey Turf & Ornam. Institute, Hamilton, NJ. IPM of turfgrass insects.
7/30/08, Landscape Turf Res. Field Day, Adelphia, NJ. Update on turf entomology research.
7/31/08, Fine Turf Res. Field Day, North Brunswick, NJ. Chemical and biological control of the annual bluegrass weevil.
9/23/08, Cultivated Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. New compounds for insect management in sod.
12/9/08, NJ Green Expo, Atlantic City, NJ. Understanding a pesticide's mode of action is the first step toward selection, effectiveness, and safety.
12/10/08, NJ Green Expo, Atlantic City, NJ. Mating disruption of turf pests – sex and the city?
12/11/08, NJ Green Expo, Atlantic City, NJ. Crane flies, cicada killers, and other scary bugs.

2009:

1/15/09, Central Jersey Turf & Ornam. Institute.Somerset, NJ. New turf pests on the horizon.
5/4/09, Rutgers Turfgrass Res. Golf Classic Edu. Sem., Bedminster, NJ. Newest findings in annual bluegrass weevil management.
8/4/09, Fine Turf Res. Field Day, North Brunswick, NJ. Biological, biorational, and chemical control options for black cutworm management.
8/5/09, Landscape Turf Res. Field Day, Adelphia, NJ. New insecticide chemistries and new pests on the horizon.
12/9/09, NJ Green Expo, Atlantic City, NJ. Insect management in landscape turf: basics, new insecticides, new insects.
12/10/09, NJ Green Expo, AC, NJ. Effective white grub management: what, when, why, how?

2010:

1/5/10, North Jersey Ornam. Horticul. & Turf Day, Randolph, NJ. Chemical & biological turf insecticides: MoA, safety, effective use.
7/27/10, Fine Turf Res. Field Day, North Brunswick, NJ. Annual bluegrass weevil update.
7/28/10, Landscape Turf Res. Field Day, Adelphia, NJ. Landscape turf insect management.
12/7/10, NJ Green Expo, Atlantic City, NJ. White grub control strategies for school grounds.
12/7/10, NJ Green Expo, Atlantic City, NJ. How to use the latest chemistries to control white grubs (and other insect pests) more effectively and safer.

2011:

1/3/11, North Jersey Ornamental Horticul. & Turf Day, Randolph, NJ. Improving insect control efficacy & safety using the latest chemistries.
5/2/11, Rutgers Turfgrass Res. Golf Classic Edu. Sem., Bedminster, NJ. Black cutworm management on golf courses: new developments in biological and chemical control.
7/26/11, Fine Turf Res. Field Day, North Brunswick, NJ. So many options, too many opinions: annual bluegrass weevil management.
7/27/11, Landscape Turf Res. Field Day, Adelphia, NJ. Management of major landscape turf insect pests.
12/6/11, NJ Green Expo, Atlantic City, NJ. White grub control strategies for school grounds using insect pathogenic nematodes.
12/6/11, NJ Green Expo, AC, NJ. The top 4 insect problems for the landscape professional.
12/8/11, NJ Green Expo, Atlantic City, NJ. Best management practices for the control of the annual bluegrass weevil.

2012:

1/3/12, North Jersey Ornam. Horticul. & Turf Day, Randolph, NJ. Alternatives to chemical insecticides for turfgrass insect management.
3/8/12, Central Jersey Turf & Ornam. Institute. Manalapan, NJ. Using new turfgrass insecticides to reduce labor and pesticide load of the environment.
3/16/12, Monmouth County GC Edu. Sem., Colts Neck, NJ. Annual bluegrass weevil managt.
7/31/12, Fine Turf Res. Field Day, North Brunswick, NJ. Annual bluegrass weevil managt.
8/1/12, Landscape Turf Res. Field Day, Adelphia, NJ. Update on turf insect pest management.
12/5/12, NJ Green Expo, Atlantic City, NJ. Developing an excellent insect control program.
12/6/12, NJ Green Expo, Atlantic City, NJ. What's new with the annual bluegrass weevil?
12/6/12, NJ Green Expo, Atlantic City, NJ. Earthworms and controlling their damage.

2013:

1/7/13, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Developing a control program for turf insect pests.
1/17/13, Rutgers Organic Landcare Certification Course, East Brunswick, NJ. Biological and alternative controls for insect in turf grass.
1/22/13, NJ Landscape Conf., Edison, NJ. Turf insect control.
2/28/13, Central Jersey Turf & Ornam. Institute. Manalapan, NJ. Current control strategies for efficient and safer insect management in turfgrass.
7/30/13, Fine Turf Res. Field Day, North Brunswick, NJ. Update on annual bluegrass weevil management.
7/31/13, Landscape Turf Res. Field Day, Adelphia, NJ. Landscape turf insect pest Update.
7/23/14, Cultivated Sod Assn. of NJ, Edu. Mtg., North Brunswick, NJ. Update on turfgrass entomology research.
12/11/13, NJ Green Expo, AC, NJ. Biology and control of the annual bluegrass weevil.
12/11/13, NJ Green Expo, Atlantic City, NJ. Developing your insect control program.

2014:

1/6/14, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Biological and biorational control of turf insect pests: proven products, empty claims, and snake oils.
7/29/14, Fine Turf Res. Field Day, North Brunswick, NJ. Insecticide resistance in annual bluegrass weevil.
7/30/14, Landscape Turf Res. Field Day, Adelphia, NJ. Landscape turf insect pest Update.
12/10/14, NJ Green Expo, Atlantic City, NJ. Using insecticides more effectively by targeting multiple species with the right rate at the right time.

2015:

1/5/15, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Management of important turfgrass insect pests.
7/28/15, Fine Turf Res. Field Day, North Brunswick, NJ. Annual bluegrass weevil insecticide resistance update.
7/29/15, Landscape Turf Res. Field Day, Adelphia, NJ. Landscape turf insect pest Update.
7/29/15, Cultivated Sod Assn. of NJ, Edu. Mtg., Adelphia, NJ. New compounds for insect management in sod.
9/18/15, CPS Northeast Division Turf Tour, East Brunswick, NJ. Annual bluegrass weevil insecticide resistance and management.
12/8/15, NJ Green Expo, Atlantic City, NJ. Insecticide resistance in ABW: how to avoid it and how to deal with it.
12/9/15, NJ Green Expo, Atlantic City, NJ. Integrated pest management: can we minimize the potential for resistance to insecticides applied on sports fields and grounds?
12/9/15, NJ Green Expo, Atlantic City, NJ. A review of the 'Fantastic four': white grubs, chinch bugs, billbugs, and sod webworms.

2016:

1/11/16, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Turf insecticides: MoA, safety, effective use, and resistance management.
2/3/16, Cultiv. Sod Assn. of NJ, Edu. Mtg., Bordentown, NJ. Insect managt. in sod production.
5/2/16, Rutgers Turfgrass Res. Golf Classic Edu. Sem., Bedminster, NJ. Resistance and tolerance to annual bluegrass weevil among bentgrass species and cultivars.

8/2/16, Fine Turf Res. Field Day, North Brunswick, NJ. Update on annual bluegrass weevil insecticide resistance management.

8/3/2016, Landscape Turf Res. Field Day, Adelphia, NJ. ID and managt. of turf insect pests.

12/7/16, NJ Green Expo, Atlantic City, NJ. Zika virus: what New Jersey needs to know.

12/7/16, NJ Green Expo, Atlantic City, NJ. Overview of the important insects that plague landscape turf, and their control.

12/8/16, NJ Green Expo, Atlantic City, NJ. Monitoring of the annual bluegrass weevil.

2017:

1/9/17, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. All you ever wanted to know about white grubs and their management.

1/31/17, Princeton Junior School – Young Scholars Lecture Series, Lawrenceville, NJ. Where have all the bees gone? Or are they really gone?

3/2/17, Central Jersey Turf & Ornam. Institute. Manalapan, NJ. What's the latest on grub control: BMPs to reduce damage to turfgrass.

3/10/17, Cultiv. Sod Assn. of NJ, Edu. Mtg., Bordentown, NJ. Sod webworm ID, biology, and management and update on neonicotinoid legislation.

7/21/17, 2017 ITRC Rutgers Turfgrass Research Field Day, Adelphia, NJ. Turfgrass Entomology Research at Rutgers University.

7/25/17, Fine Turf Res. Field Day, North Brunswick, NJ. Annual bluegrass weevil update.

7/26/17, Landscape Turf Res. Field Day, Adelphia, NJ. Landscape turf insect management.

12/5/17, NJ Green Expo, Atlantic City, NJ. Crane flies and other scary insects.

12/7/17, NJ Green Expo, Atlantic City, NJ. History of controlling annual bluegrass weevil: How not to control a pest.

12/7/17, NJ Green Expo, Atlantic City, NJ. Nematodes – A hidden stress in amenity turf.

2018:

1/8/18, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Annoying invertebrates and vertebrate varmint in turfgrass.

6/15/18, Extension Specialist Meeting, New Brunswick, NJ. Rutgers turf entomology program.

7/31/18, Fine Turf Res. Field Day, North Brunswick, NJ. Annual bluegrass weevil management: switching to larvicides.

8/1/2018, Landscape Turf Res. Field Day, Adelphia, NJ. ID and manag. of turf insect pests.

12/5/18, NJ Green Expo, Atlantic City, NJ. Spotted lanternfly update and how to get the most out of your insecticides.

12/6/18, NJ Green Expo, Atlantic City, NJ. ABW: switching from adulticides to larvicides.

2019:

1/7/19, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Turf insecticides: getting the most out of your applications and how to keep it that way.

2/9/19, Princeton Junior School – Young Scholars Lecture Series, Lawrenceville, NJ. A beautiful friendship occurring below our feet – Entomopathogenic nematodes and their symbiont bacteria.

12/10/19, NJ Green Expo, Atlantic City, NJ. Integrated white grub control strategies on school and municipal grounds.

12/11/19, NJ Green Expo, Atlantic City, NJ. All you ever wanted to know about grubs.

2020:

1/6/20, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Non-chemical options for turfgrass insect management.
10/7/20, Rutgers Turf Res. Field Day (virtual due to Covid). Biological control of white grubs: entomopathogenic nematodes.
https://www.youtube.com/watch?v=stCcW_IGjda&list=PLmc48YrhsVMe9Ai5OKkz4wv6OQ7DIKOY
10/7/20, Rutgers Turf Res. Field Day (virtual). Monitoring ABW adults (Part 1).
https://www.youtube.com/watch?v=fe8FKskB_zl&list=PLmc48YrhsVMe9Ai5OKkz4wv6OQ7DIKOY&index=2
10/7/20, Rutgers Turf Res. Field Day (virtual). Monitoring ABW adults (Part 2).
<https://www.youtube.com/watch?v=1GhZjN2Fy70&list=PLmc48YrhsVMe9Ai5OKkz4wv6OQ7DIKOY&index=3>

2021:

2/16/21, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Billbugs and chinch bugs in turfgrass.
7/28/21, Fine Turf Res. Field Day, North Brunswick, NJ. ABW management update.
7/29/21, Landscape Turf Res. Field Day, Adelphia, NJ. White grub management.
12/7/21, NJ Green Expo, Atlantic City, NJ. Neonics: Where we are today, tomorrow's options.
12/8/2021, NJ Green Expo, Atlantic City, NJ. Surface insect management beyond neonics.

2022:

1/10/21, North Jersey Ornam. Horticult. & Turf Day, Randolph, NJ. Turfgrass insect management beyond neonicotinoids.

Continued Professional Education Lectures/Courses

Managing Turfgrass Insects Short Course, New Brunswick, NJ (6 hr lecture and lab - Sole Instructor and Coordinator): 2/1/01, 3/7/02, 2/28/03, 2/27/04, 2/25/05, 2/24/06, 2/27/07, 1/29/08, 2/9/09, 2/2/10, 2/14/11, 2/13/12, 2/11/13, 3/6/14, 12/3/14, 12/2/15, 12/2/16, 12/1/17, 12/7/2018, 12/6/19, 12/4+16/20, 4/1+4/6/22.

Golf Turf Management School: 3-wk Prep. Short Course, New Brunswick, NJ: Turfgrass Insect ID & Biology (3-4 hr lecture and lab): 1/27/00, 2/6/01, 2/5/02, 1/28/04, 1/26/06, 1/29/07, 1/17/08, 1/22/09, 1/13/10, 1/14/11, 1/19/12, 1/17/13, 1/16/14, 1/22/15, 1/21/16, 1/19/17, 1/19/18+1/20/18; 1/24/19+1/28/19, 1/23/20+1/27/20, 1/21/21+1/25/21, 1/31/22.

Athletic Field Construction & Maintenance Short Course, East Brunswick, NJ: Insect problems and their control (1 hr lecture): 2/23/00, 2/28/01, 2/27/02, 1/9/03; 2/26/03, 2/25/04, 2/23/05, 2/22/06, 2/20/08, 2/17/09, 2/17/10, 2/17/11, 2/15/12, 2/21/2013, 2/20/14; 2/19/15, 2/17/16, 2/15/17, 2/13/18, 2/13/19, 2/12/20, 2/11/21, 2/16/22.

Emergency Pesticide Recertification Seminar, New Brunswick, NJ: ID & control of turfgrass insects (1 hr lecture): 9/18/01, 10/16/02, 10/15/03, 10/20/04, 10/20/05, 10/5/06, 10/10/07, 10/10/08, 10/20/09, 10/20/11, 10/16/13, 10/7/14, 10/20/15, 10/18/16, 10/4/17, 10/3/18, 10/21/19, 10/20/21.

Organic Turf Management Short Course, New Brunswick, NJ: Organic strategies for turfgrass insect management (0.5 hr lecture): 1/29/13, 1/28/14; 2/12/15, 1/27/16, 1/19/17, 1/23/18; 2/25/19; 1/8/20.

Pest Management in Landscape Turf Short Course, New Brunswick, NJ: ID and control of insect pests in landscape turf (2 hr lecture and lab): 2/22/01, 2/22/02, 1/23/03, 1/22/04, 1/20/05, 1/18/06, 1/18/07, 2/1/08, 1/30/14.

Rutgers Landscape IPM Short Course, New Brunswick, NJ: Turfgrass Insect ID, Monitoring & Control (1.5 hr lecture and lab): 1/30/01, 1/29/02, 1/22/03, 1/20/04, 1/18/05, 1/17/06, 1/23/07.

Professional Landscape & Grounds Management School, Short course, New Brunswick, NJ:
Turfgrass Insect ID, Monitoring & Control (2 hr lecture and lab): 1/3/00, 1/10/01, 1/9/02, 1/13/03.

Advanced Turfgrass Symposium, New Brunswick, NJ: New ideas for grub control on golf courses (1 hr lecture): 3/6/03.

Two-Year Turfgrass School, New Brunswick, NJ: White grub IPM & biological control (1 hr lecture): 3/2/00; White grubs - Biological control and its interaction with other control agents (1 hr lecture), 11/27/00; Biological control of white grubs (1 hr lecture), 11/14/01.

Television and Radio Programs:

Biological and integrated control of the banana weevil. 9/10/92, News from Science and Technology, transmission of the 'Deutschlandfunk' (German broadcasting station).

White grub control. 11/14/00, 'If Plants could talk' educational series on NJN Public Television.
Armyworms. 7/10/01. News 12 New Jersey, NJ cable TV station.

Webinars:

Turf management during COVID-19 – Keeping your maintenance program simple when things are not. Collaboration between GCSANJ and Rutgers Center f. Turfgrass Science. Posted 4-6-2020. 1,408 views as of 6-5-2020. https://www.youtube.com/watch?v=DPmg5zXZ_-g&feature=youtu.be

A lesser of two weevils? The ABW, overseeding, and PGRs for annual bluegrass control in cool-season turf. GCSAA learning hub. Posted 6-4-2020.

<https://gcsaa.interactyx.com/pages/course/portal.aspx?courseid=841>

ABW management: An update. MetGCSAA Spring Education Seminar. 4-29-2021.

TEACHING

Entomology 603, 604 (Seminar in Entomology, 1 credit), Rutgers: Fall 2001, Spring 2006, Fall 2010, Fall 2015; Spring 2019.

Plant Science 408 (Turf Pest Science, 4 credits), Rutgers: Spring 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021.

Guest lectures

Nematode parasites of invertebrates (Nematology 110, E. Caswell-Chen, UC Davis): 4/98, 4/99.
Biology of Viral Pathogens (Entomology 135 'Biological Control', H. Kaya & L. Ehler, UCD): 4/99

Biology of Fungal Pathogens (Entomology 135, H. Kaya & L. Ehler, UCD): 5/99.

Epizootiology (Entomology 135, H. Kaya & L. Ehler, UCD): 5/99.

Interactions among natural enemies (Entomology 135, H. Kaya & L. Ehler, UCD): 5/99.

Turfgrass insect pests and their control (Entomology 350, Agricultural Entomology & Pest Management, G. Hamilton, Rutgers): 4/10/00, 4/4/01, 4/2/03, 4/5/04; 4/4/05; 3/29/06. 3/28/07, 4/27/08, 4/26/09, 4/26/10, 4/25/11, 4/23/12, 4/29/13; 4/30/14; 4/29/15; 4/27/16, 4/26/17, 4/25/18, 5/1/19, 4/27/20 (virtual), 4/22/21 (virtual).

Major insect pests associated with turf (Plant Science 536, Plant Disease Clinic, B. Clarke, Rutgers): 8/10/00, 8/14/02, 8/11/04, 8/15/06, 8/14/08, 8/10/10, 8/2/12; 8/7/14; 8/11/16, 8/9/18.

Entomopathogenic nematodes (Entomology 277: Natural Enemies Managing Pests. A. Hajek, Ithaca, Cornell Univ.): 4/22/03.

Entomopathogenic nematodes (Entomology 601: Biological Control. G. Hamilton, Rutgers): 10/14/04.
Entomopathogenic nematodes (Entomology 507: Biological Control of Insect Pests. G. Hamilton, Rutgers): 10/1/08, 9/28/10, 11/27/12, 11/12/14, 11/9/2020 (virtual).
Turfgrass insects (Plant Science 304, Turfgrass Management, W. Meyer, J. Honig et al., Rutgers): 12/5/05, 11/30/06; 11/29/07; 12/3/08; 12/3/09; 12/4/10; 12/3/11; 11/27/12; 12/4/14; 11/16/17, 12/3/2020 (virtual).
Golf course insect management (Plant Science 495, B. Clarke/R. Hurley, Rutgers): 11/30/06.

Graduate student advisory committees:

- Eric Watkins, Ph.D., 2000-2003, Plant Science.
- Benjamin McGraw, Ph.D., 2005-2009, Entomology (chair).
- Debin Sun, Ph.D., 2005-2010, Entomology.
- Daniel Elmowitz, M.S., 2006-2009, Entomology (chair).
- Mary Provance-Bowley, Ph.D., 2007-2011, Plant Science.
- Monique Rivera, Ph.D., 2011-2016, Entomology (chair).
- Rob Holdcraft, M.S., 2013-present, Entomology.
- Katie Diehl, M.S., 2016-2020, Plant Science.

Postdoctoral Fellows/Research Associates:

- Benjamin McGraw, 2009
- Lemma Ebssa, 2008-2012
- Olga Kostromytska, 2010-2018
- Shaohui Wu, 2014-2018
- Ryan Geisert, 2019-2021
- Ana Luiza Sousa, 2019-present
- Shane Foye, 2021

Awards/Honors

2002, Merle Adams Award, Outstanding Junior Extension Specialist of the Year, Rutgers Cooperative Extension.
2006, Extension Specialist of the Year, Dept. of Agricultural and Resource Management Agents, Rutgers Cooperative Extension.
2011, Experiment Station Award for Excellence in Multistate Research - Northeast Section. MSRP NE1025 (2005-2011; Biology, ecology, and management of pests of annual bluegrass on golf courses).
2011, Rutgers Cooperative Extension Team Award 'Best of the Best'. Team 'Integrated Program for the Management of Emerging Pests of Annual Bluegrass on Golf Courses.'
2015, New Jersey Turfgrass Assn. Recognition Award.

Professional Affiliations:

Entomological Society of America.
Society for Invertebrate Pathology
New Jersey Turfgrass Association
New Jersey Golf Course Superintendents Association

SERVICE

Professional service:

Editorial Board Member, *Biological Control*, 1/2004 – 12/2016.

Editorial Board Member, *Biocontrol Science & Technology*, 1/2004 – present.

Editorial Board Member, *Redia*, 1/2018 – present.

Editorial Board Member, *Insects*, 1/2020 – present.

Manuscript reviews for (~8-12 per year total):

Regularly: *Biological Control*, *Biocontrol Science and Technology*, *Environmental Entomology*, *Journal of Economic Entomology*, *Journal of Invertebrate Pathology*.

Occasionally: *Annals of the Entomological Society of America*, *Applied Soil Ecology*, *Applied Turfgrass Science*, *BioControl*, *Bulletin of Entomological Research*, *Canadian Entomologist*, *Crop Protection*, *Crop Science*, *Journal of Applied Entomology*, *Journal of Insect Science*, *Journal of Nematology*, *Journal of Parasitology*, *International Journal of Turfgrass Science*, *International Journal of Tropical Insect Science*, *Naturwissenschaften*, *Nematology*, *Nematropica*, *Pest Management Science*, *Phytoparasitica*, *Plos One*, *Soil Biology & Biochemistry*.

Grant proposal reviews for: BARD, USDA-NRICGP, NERC (UK), AAAS (American Association for the Advancement of Science), USCRDF (Civilian Research & Development Foundation), USDA-US-Egypt Joint Science and Technology Program, CDFA (CA Dept. Food & Agricul.), Maryland AES Competitive Grant Program, Minnesota AES Competitive Grants Program.

Society for Invertebrate Pathology:

- Publications Committee: 2002 – present.

- Team National Repository Insect Pathogens/Predators/Parasitoids–Nematodes, 2004-present.

- Symposium organizer: 2009.

- Session moderator: 1997, 2003, 2009, 2021.

- Referee for Student Presentations at annual meeting: 2001, 2002, 2005, 2007.

Division of Nematodes:

- Secretary/Treasurer, 2000 – 2002, 2010 – 2012

- Chair-elect, 2006 – 2008

- Chair, 2008 – 2010

- Webpage committee, 2007

Executive Council

- Trustee: 2015-2018.

- Treasurer: 2020-2022

Entomological Society of America:

- Symposium organizer: 2007.

- Session moderator: 1999, 2002, 2007, 2008.

- Referee for Student Presentations at annual meetings: 1999, 2003, 2004.

Entomological Society of America – Eastern Branch:

- Nominations committee, Chair: 2007-2012.

- Symposium organizer: 2009.

- Session moderator: 2009.

Multistate Research Project NE1025 (2005-2011; Biology, ecology, and management of pests of annual bluegrass on golf courses):

- Secretary, 2008; Chair-elect, 2009; Chair, 2010.

International Turfgrass Research Conference:

- Local arrangements committee, 2017; Session moderator, 2017; Scientific program planning committee, 2017.

University Service:

Department of Entomology, Rutgers University:

- Resources, Maintenance & Development Committee: 2000-01, Chair.
- Blake Hall Renovation Committee: 2001.
- Entomology Seminar Series Comm. (Chair): Fall 2001; Spring 2006; Fall 2010, Fall 2015, Spring 2019.
- Nominations Committee: 2002-03.
- Graduate Student Status Committee: 2002-08; 2004-05, Chair.
- Entomology / EENR Merger Committee: 2005.
- Tenure Mentoring Committee for Dr. Cesar Rodriguez-Saona, 2008-11 (Chair)
- Curriculum Development Committee: 2008-10; 2010 (Chair).
- Appointments & Promotions Comm.: 2009-12; 2012 (Chair); 2014-present; 2015 (Chair), 2018 (Chair).
- Search Committee for Extension Specialist in Fruit Entomology: 2011 (Chair).
- Social and Visitation Committee: 2012-14 (Chair).
- Strategic Plan Development Committee: 2015-16 (Co-chair).
- Search Committee for non-tenure track teaching Assist. Prof: 2019.
- Graduate Students Acceptance Committee: 2019-present.

Department of Extension Specialists, Rutgers University:

- Awards Committee: Member, 2001-02.
- Search Committee for Extension Specialist in Small Fruit Entomology: 2004 (Co-chair).
- Search Committee for Extension Specialist in Urban Entomology: 2008.

Rutgers Center for Turfgrass Science:

- Rutgers Annual Turfgrass Symposium Committee: 2001 (Proceedings editor); 2002 (Chair); 2003; 2016 (Proceedings editor).
- Education and Outreach Committee: 2002-present.
- Search Committee for Assistant Professor in Turfgrass Breeding: 2003.
- Competitive Grants Committee: 2008; 2010 (Chair); 2012; 2014; 2016; 2018; 2020.
- Field Days Committee: 2008-present.
- Scholarship Committee: 2013-present.

Rutgers School for Environmental and Biological Sciences:

- Sridhar Polavarapu Memorial Symposium Committee: 2004.
- Rules of Procedures Committee: 2005-07.
- Appointments and Promotions Committee: 2011-14; 2013, chair.
- Search Committee for Assist./Assoc. Extension Specialist in Weed Sci.: 2015-16 (Chair).

3/14/2022