

I. PERSONAL INFORMATION

I.A.

Hooks, Cerruti R.R.
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I.B. Academic Appointments at UMD

March 2008 - 2013, Assistant Professor & Extension Specialist
July 2013 - present, Associate Professor & Extension Specialist

I.B. Other Appointments

University of Hawaii at Manoa

I.C. Educational Background:

B.S., Biology, North Carolina Central University.
M.S., Crop Science/Weed Science, North Carolina State University.
PhD, Entomology, University of Hawaii at Manoa.

I.D. Professional Memberships

Entomological Society of America
Weed Science Society of America

II. RESEARCH, SCHOLARLY, CREATIVE and/or PROFESSIONAL ACTIVITIES

NOTE: For each peer-reviewed publication listed below, the first author generally wrote a majority of the paper. The last author may have contributed similarly as the first author in cases where the last author mentored the first author. To identify such cases, a single asterisk (*) denotes that the first author was a graduate student in my program, whereas a double asterisk (**) denotes that the first author was either a Post-doctoral Associate or Research Associate in my program. For all other publications, at the minimum CRRH contributed to the writing – review and editing but may have also contributed to the funding acquisition, methodology, investigation, prepared the original draft and/or served as the corresponding author.

II.A. Refereed Journals

Scientific publications

Pre-tenure

Summary of pre-tenure publications (2008-2012)

Publication type	Number¹	No. 1st or Sr
Refereed publication	20	11

Refereed abstracts	3	2
Total (post tenure)	23	13

¹Consist of manuscripts published while employed at UMD

1. **Hooks, C.R.R.**, H.R. Valenzuela, and J. DeFrank. 1998. Incidence of pests and arthropod natural enemies in zucchini grown with living mulches. *Agric. Ecosys. Environ.* 69: 217-231.
2. **Hooks, C.R.R.** and M.W. Johnson. 2001. Broccoli growth parameters and level of head infestations in simple and mixed plantings. *Ann. Appl. Biol.* 138: 269-280.
3. **Hooks, C.R.R.** and M.W. Johnson. 2002. Lepidopterous pest populations and crop yield in row intercropped broccoli. *Agri. For. Entomol.* 4: 117-125.
4. **Hooks, C.R.R.** and M.W. Johnson. 2003. Review: Impact of agricultural diversification on the insect community of cruciferous crops. *Crop Prot.* 22: 223-238.
5. **Hooks, C.R.R.**, R.R. Pandey and M.W. Johnson. 2003. Impact of avian and arthropod predation on caterpillar densities and plant productivity in an ephemeral agroecosystem. *Ecol. Entomol.* 28: 522-532.
6. **Hooks, C.R.R.** and M.W. Johnson. 2004. Using undersown-clovers as living mulches: Effects on yields, lepidopterous pest infestations, and spider densities in a Hawaiian broccoli agroecosystem. *Internat. J. Pest Mgnt.* 50: 115-120.
7. **Hooks, C.R.R.**, R.R. Pandey, and M.W. Johnson. 2006. Effects of spider presence on *Artogeia rapae* and host plant biomass. *Agri. Ecosys. Environ.* 112: 73-77.
8. **Hooks, C.R.R.** and A. Fereres. 2006. Protecting crops from non-persistently aphid-transmitted viruses: A review on the use of barrier plants as a management tool. *Virus Research.* 120: 1-16.
9. **Hooks, C.R.R.** and M.W. Johnson. 2006. Population densities of herbivorous lepidopterans in diverse cruciferous cropping habitats: effects of mixed cropping and using a living mulch. *BioControl.* 51: 485-506
10. **Hooks, C.R.R.**, M.G. Wright, D.S. Kabasawa, R. Manandhar, and R.P.P. Almeida. 2008. Effect of banana bunchy top virus infection on morphology and growth characteristics of banana. *Ann. Appl. Biol.* 153: 1-9.
11. *Manandhar, R., **C.R.R. Hooks**, and M.G. Wright. 2009. Influence of cover crop and intercrop systems on *Bemisia argentifolli* (Hemiptera: Aleyrodidae) infestation and associated squash silverleaf disorder in zucchini. *Environ. Entomol.* 38: 442-449.
12. **Hooks, C.R.R.**, S. Fukuda, E.A. Perez, R. Manandhar, K.-H. Wang, M.G. Wright, and R.P.P. Almeida. 2009. Aphid transmission of Banana bunchy top virus to bananas after treatment with a bananacide. *J. Econ. Entomol.* 102: 493-499.
13. **Hooks, C.R.R.**, R. Manandhar, E.P. Perez, K.-H. Wang, and R.P.P. Almeida. 2009. Comparative susceptibility of two banana cultivars to *Banana bunchy top virus* under laboratory and field environments. *J. Econ. Entomol.* 102: 897-904.
14. **Wang, K.-H. and **C.R.R. Hooks**. 2009. Plant-parasitic nematodes and their associated natural enemies within banana (*Musa* spp.) plantings in Hawaii. *Nematropica* 39: 57-73.

15. McSorley, R., D.R. Seal, W. Klassen, K.-H. Wang, and **C.R.R. Hooks**. 2009. Non-target effects of sunn hemp and marigold cover crops on the soil invertebrate community. *Nematropica* 39: 235-245.
16. **Hooks, C.R.R.**, K.-H. Wang, A. Ploeg and R. McSorley. 2010. Using marigold (*Tagetes* spp.) as a cover crop to protect crops from plant-parasitic nematodes. *Appl. Soil Ecol.* 46: 307-320.
17. Marahatta, S. P., K.-H. Wang, B.S. Sipes, and **C.R.R. Hooks**. 2010. Strip-tilled cover cropping for managing nematodes, soil mesoarthropods and weeds in a bitter melon agroecosystem. *J. Nematol.* 42: 111-119.
18. **Wang, K.-H., B.S. Sipes, and **C.R.R. Hooks**. 2010. Sunn hemp cover cropping and solarization as alternatives to soil fumigants for pineapple production. *Acta Hort (ISHS)* 902: 221-232.
19. *Manandhar, R. and **C.R.R. Hooks**. 2011. Using protector plants to reduce the incidence of Papaya ringspot virus-watermelon strain in zucchini. *Environ. Entomol.* 40: 391-398.
20. **Hooks, C.R.R.**, K.-H. Wang, N. Pradhan⁺, R. Manandhar, M.G. Wright. 2011. Population distribution and density of *Pentalonia nigronervosa* Coquerel (Hemiptera: Aphididae) within banana mats: Influence of plant age and height on sampling and management. *J. Econ. Entomol.* 104: 947-955.
21. Wang K.-H., **C.R.R. Hooks**, and S.P. Marahatta. 2011. Can using a strip-tilled cover cropping system followed by surface mulch practice enhance organisms higher up in the soil food web hierarchy? *Appl. Soil Ecol.* 49: 107-117.
22. **Hooks, C.R.R.**, K.-H. Wang, S.L.F. Meyer, M. Lekveishvili, J. Hinds, E. Zobel, A. Rosario-Lebron, and M. Lee-Bullock. 2011. Impact of no-till cover cropping Italian ryegrass on above and below ground faunal communities inhabiting a soybean field with special emphasis on soybean cyst nematodes. *J. Nematol.* 43: 166-175.
23. Marahatta, S.P., Wang, K.-H., Sipes, B.S., and **C.R.R. Hooks**. 2012. Effects of *Crotalaria juncea* on anhydrobiotic state of *Rotylenchulus reniformis*. *Nematropica* 42: 32-40.
24. Masler, E. P., A. Nagarkar, L. Edwards, and **C.R.R. Hooks**. 2012. Behaviour of *Heterodera glycines* and *Meloidogyne incognita* infective juveniles exposed to nematode FMRamide-like peptides in vitro. *Nematology* 14: 605-612.
25. **Hooks, C.R.R.**, J. Hinds, E. Zobel, and T. Patton. 2012. Impact of crimson clover dying mulch on two eggplant insect herbivores. *J. Appl. Entomol.* 137: 170-180.
26. Kuhar, T.P., K.L. Kamminga, J. Whalen, G.P. Dively, G. Brust, **C.R.R. Hooks**, G. Hamilton and D.A. Herbert. 2012. The pest potential of brown marmorated stink bug on vegetable crops. Online. *Plant Health Progress* doi:10.1094/PHP-2012-05XX-01-BR
27. Marahatta, S.P., Wang, K.-H., Sipes, B.S. and **C.R.R. Hooks**. 2012. Effects of *Tagetes patula* on active and inactive stages of root-knot nematodes. *J. Nematol.* 44: 26-30.
28. Marahatta, S.P., Wang, K.-H., Sipes, B.S. and **C.R.R. Hooks**. 2012. Effects of the Integration of Sunn Hemp and Soil Solarization on Plant-Parasitic and Free-Living Nematodes. *J. Nematol.* 44: 72-79.

29. Leskey, T.C., G.C. Hamilton, A.L. Nielsen, ... **C.R.R. Hooks** (11), ... K. A. Hoelmer, D.-H. Lee, and S. E. Wright (total of 22 authors). 2012. Pest Status of the Brown Marmorated Stink Bug, *Halyomorpha halys* in the USA. *Outlooks on Pest Management*. 23: 218-226.

Post-tenure

Summary of post-tenure publications (2013 – current)

Publication type	Number	No. 1st or Sr
Refereed publication	30	16
Refereed abstracts	5	1
Compendium	1	0
Proceedings	3	3
Total (post tenure)	39	20

30. *H Hinds, J. and **C.R.R. Hooks**. 2013. Population dynamics of arthropods in a sunn hemp zucchini interplanting system. *Crop Prot.* 53: 6-12.
31. **Hooks, C.R.R.**, J. Hinds, E. Zobel and T. Patton. 2013. The effects of crimson clover companion planting on eggplant crop growth, yield and insect feeding injury. *Int. J. Pest Mngt.* 59: 287-293.
32. *Hinds, J., K.-H. Wang, S. P. Marahatta, S. L.F. Meyer and **C.R.R. Hooks**. 2013. Sunn hemp cover cropping and organic fertilizer effects on the nematode community under temperate growing conditions. *J. Nematol.* 45:265-71.
33. Jones, A.L., D.E. Jennings, **C.R.R. Hooks**, and P.M. Shrewsbury. 2014. Sentinel eggs underestimate rates of parasitism of the exotic brown marmorated stink bug, *Halyomorpha halys*. *Biol. Control.* 78: 61-66.
34. Rice, K. B. C. J. Bergh, E. J. Bergmann, D. J. Biddinger, C. Dieckhoff, G. Dively, H. Fraser, T. Garipey, G. Hamilton, T. Haye, A. Herbert, K. Hoelmer, **C. R. Hooks** et al. (29 total). 2014. Biology, ecology, and management of brown marmorated stink bug (Hemiptera: Pentatomidae). *J. Int. Pest Mngt.* 5(3): 2014; DOI: <http://dx.doi.org/10.1603/IPM14002>
35. Meyer, S., I. Zasada, S. Rupperecht, M. VanGessel, **C. Hooks**, M. Morra, and K. Everts. 2015. Mustard Seed Meal for Management of Root-Knot Nematode and Weeds in Tomato Production. *HortTechnology* 25: 192-202.
36. Cissel, W. J., C. E. Mason, J. Whalen, J. Hough-Goldstein, **C.R.R Hooks**, and J. Pesek. 2015. Effects of brown marmorated stink bug (Hemiptera: Pentatomidae) feeding injury on sweet corn yield and quality. *J. Econ. Entomol.* 108: 1065-1071.
37. *Hinds, J., K. H. Wang and **C.R.R. Hooks**. 2015. Growth and yield of zucchini squash (*Cucurbita pepo* L.) as influenced by a sunn hemp living mulch. *Biol. Agri. Hort.* DOI: 10.1080/01448765.2015.1017736
38. **Chen, G., J. Hinds, E. Zobel, A. Rosario-Lebron and **C.R.R. Hooks**. 2015. Evaluation of prophylactic sprays on pest abundance, foliar damage and yield in winter wheat. *Int. J. Pest Mngt.* 61: 161-170.

39. **Buchanan, A. L., E. Zobel, J. Hinds, A. Rosario-Lebron and **C.R.R. Hooks**. 2015. Can row spacing influence arthropod communities in soybean? Implications for early and late planting. *Environ. Entomol.* 44: 557-561.
40. Tavares, J., K.-H. Wang and **C.R.R. Hooks**. 2015. An evaluation of insectary plants for management of insect pests in a hydroponic cropping system. *Bio. Control* 91: 1-9.
41. **Chen, G., **C.R.R. Hooks**, T. W. Patton, R. Kratochvil, and G. Dively. 2016. Tolerance to stalk and ear-invading worms and yield performance of Bt and conventional corn hybrids. *Agron. J.* 108: 73-84.
42. Quintanilla-Tornela, M. A., K.-H. Wang, J. Tavares and **C.R.R. Hooks**. 2016. Effects of mulching on above and below ground pests and beneficials in a green onion agroecosystem. *Agri. Ecosys. Environ.* 224: 75-85.
43. *Zobel, E.Z., **C.R.R. Hooks** and G. P. Dively. 2016. Seasonal abundance, host suitability, and feeding injury of the brown marmorated stink bug *Halyomorpha halys*, in selected vegetables. *J. Econ. Entomol.* 109: 1289-1302.
44. **Buchanan, A. L., L. N. Kolb, and **Cerruti R.R. Hooks**. 2016. Can winter cover crops influence weed density and diversity in a reduced tillage vegetable system? *Crop Prot.* 90: 9-16.
45. Masler, E. P., S. T. Rogers and **C.R.R. Hooks**. 2016. Behavioral differences of *Heterodera glycines* and *Meloidogyne incognita* infective juveniles exposed to root extracts *in vitro*. *Nematology* 19, 175-183.
46. **Chen, G., L. Kolb, A. Leslie and **C.R.R. Hooks**. 2017. Using reduced tillage and cover crop residue to manage weeds in organic vegetable production. *Weed Technol.* 31: 557-573.
47. **Leslie, A. W., K.-H. Wang, S. L. F. Meyer, S. Marahatta, **C.R.R. Hooks**. 2017. Influence of cover crops on arthropods, free-living nematodes, and yield in a succeeding no-till soybean crop. *Appl. Soil Ecol.* 117-118: 21-31.
48. Jones, A.L., D.E. Jennings, **C.R.R. Hooks**, and P.M. Shrewsbury. 2017. Field surveys of egg mortality and indigenous egg parasitoids of the brown marmorated stink bug, *Halyomorpha halys*, in ornamental nurseries in the mid-Atlantic region of the USA. *J. Pest Sci.* 90: 1159-1168.
49. Abram, P. K., K. A. Hoelmer,, **C.R.R. Hooks** et al. 2017. Indigenous arthropod natural enemies of the invasive brown marmorated stink bug in North America and Europe. *J. Pest Sci.* 90: 1009-1020. (Review with 49 authors)
50. **Chen, G. L. Kolb, M. A. Cavigelli, R. R. Weil, and **C.R.R. Hooks**. 2017. Can conservation tillage reduce N₂O emissions on cropland transitioning to organic vegetable production? *Sci. Tot. Env.* 618: 927-940.
51. Manandhar, R., K.-H. Wang, **C.R.R. Hooks** and M. J. Wright. 2017. Effects of strip-tilled cover cropping on the population density of thrips and predatory insects in a cucurbit agroecosystem. *J. Asia Pac. Entomol.* 20: 1254-1259.
52. Nelson, Jessica L., L. G. Hunt, M. T. Lewis, K. A. Hamby, **C.R.R. Hooks**, G. P. Dively. 2018. Arthropod communities in warm and cool grass riparian buffers and their influence on natural enemies in adjacent crops. *Agric. Ecosys. Environ.* 257: 81-91.
53. **Buchanan, A. L. and **C.R.R. Hooks**. 2018. Influence of winter cover crop mulch on arthropods in a reduced tillage cucurbit system. *Environ. Entomol.* 47: 292-299

54. *Rosario-Lebron, A., A. W. Leslie, G. Chen and **C.R.R. Hooks**. 2018. The effect of barley cover crop residue and herbicide management on the foliar arthropod community in no-till soybeans. *Agronomy*, 8(6), 87; doi: 10.3390/agronomy8060087
55. Moore, L., A.W. Leslie, **C.R.R. Hooks** and G. P. Dively. 2019. Can plantings of partridge pea (*Chamaecrista fasciculata*) enhance beneficial arthropod communities in neighboring soybeans? *Bio. Control* 128: 6-16.
56. *Rosario-Lebron, A., A. W. Leslie, V. L. Yurchak, G. Chen and **C.R.R. Hooks**. 2019. Can winter cover crop termination practices impact weed suppression, soil moisture, and yield in no-till soybean [*Glycine max* (L.) Merr.]? *Crop Prot.* 116: 132-141.
57. *Kahl, H., A.W. Leslie and **C.R.R. Hooks**. 2019. Effects of red clover living mulch on arthropod herbivores and natural enemies, and cucumber yield. *Ann. Entomol. Soc. Am.* 112: 356-364.
58. Dively, G, A.W. Leslie and **C.R.R. Hooks**. 2020. Evaluating wildflowers for use in conservation grass buffers to augment beneficial arthropods in neighboring cornfields. *Ecol. Eng.* 144 105703
59. **Leslie, A.W., K.A. Hamby, S.R. McCluen and **C.R.R. Hooks**. 2020. Evaluating a push-pull tactic for management of *Epilachna varivestis* Mulsant and enhancement of beneficial arthropods in *Phaseolus lunatus* L. *Ecol. Eng.* 147 105660
60. *Hunt, L.G., G. Dively and **C.R.R. Hooks**. 2020. Partridge pea [(*Chamaecrista fasciculata*) (Michx.) Greene] borders enhance natural enemy populations and improve grain quality in field corn (*Zea mays* L.). *Agri. Ecosys. Environ. (Being revised for resubmission)*
61. *Kahl, H. M., A.W. Leslie and **C.R.R. Hooks**. 2020. Consumptive and non-consumptive effects of wolf spiders on cucumber beetles and cucumber plant damage. *Ann. Appl. Bio. (Submitted)*

II.C. Compendiums

1. Leskey, T.C., G.C. Hamilton, D.C. Biddinger, M.L. Buffington, C. Dieckhoff, G.P. Dively, H. Fraser, T.D. Garipey, C. Hedstrom, D.A. Herbert, K.A. Hoelmer, C.R. R. Hooks, D. Inkley, G. Krawczyk, T.P. Kuhar, D-H. Lee, A.L. Nielsen, D. Pfeiffer, C. Rodriguez-Saona, P.W. Shearer, E. Talamas, E. Tomasino, J. Tooker, P.D. Venugopal, J. Whalen, V. Walton and N. Wiman. 2014. *Halyomorpha halys*. Invasive Species Compendium. CABI. Wallingford, UK: CAB International. Available at: "<http://www.cabi.org/isc/datasheet/27377>"

II.D. Proceedings

1. **Chen, G. and C.R.R Hooks. 2016. Minimum tillage and cover cropping for managing weeds in organic vegetables. Mid-Atlantic fruit and vegetable convention. Proceedings for the vegetable, potato, greenhouse, small fruit and general session. February 02-04, Hershey Lodge and Convention Center, Hershey, Pennsylvania.
2. *Kahl, H. and C.R.R. Hooks. 2017. Using red clover to improve insect management, yield and environmental quality in peppers and cucumbers. Mid-Atlantic fruit and vegetable convention. Proceedings for the vegetable, potato, greenhouse, small fruit

and general sessions, pgs. 104-105. January 31- February 02, Hershey Lodge and Convention Center, Hershey, Pennsylvania.

3. C.R.R. Hooks. 2019. The case for spider conservancy in organic agroecosystems. Mid-Atlantic fruit and vegetable convention. Proceedings for organic vegetable production sessions, pgs. 18-20. January 29-31, Hershey Lodge and Convention Center, Hershey, Pennsylvania.

II.E. Scientific Conferences, Workshops and Talks

Conference Presentations (* - Indicates student in my program gave the presentation; ** - denotes Post-Doctoral or Research Associate in my program gave the presentation)

SCIENTIFIC TALKS

Pre- and Post-tenure scientific presentation summary (2008 - present)

Location	Pre-tenure		Post-tenure	
	Invited	Submitted	Invited	Submitted
International	2 (1)	0	4 (1)	5 (4)
National	2 (2)	9 (7)	8 (5)	14 (12)
Regional	2 (1)	2 (1)	9 (7)	5 (5)
Local	5 (5)	0	10 (9)	5 (5)
Total	11 (9)	11 (8)	31 (22)	29 (26)

¹Number in parenthesis indicate number as 1st or Senior author

II.E.1. Invited talks scientific

II.E.1.1 International

Pre-tenure

1. **Hooks, C.R.R.** 2010. International Organization for Biological Control -Nearctic and Neotropic Regional Sections Conference. *Symposium title:* Ecosystems landscape and habitat management to improve biological control symposium. *Talk title:* Can we improve the success of conservation biological control through a more balanced disruption on pest ecological requisites? Niagara Falls, Ontario, Canada. May 11-13.
2. Wang, K.-H., B. S. Sipes and **C.R.R. Hooks**. 2010. *Symposium:* International Pineapple Symposium. *Talk title:* Sunn hemp cover cropping and solarization as alternatives to soil fumigants for pineapple production. Persada, Johor Bharu, Malaysia. July 13-15, 2010. <http://www.ishs-horticulture.org/workinggroups/pineapple/>

Post-tenure

3. Shrewsbury, P.M., A.L. Jones[#], M.J. Raupp, **C.R.R. Hooks** and D.E. Jennings. 2014. *Symposium title:* Pentatomid pests and associated microbes. *Talk title:* Survey and impact of indigenous natural enemies of the invasive brown marmorated stink bug,

- Halyomorpha halys*, in the United States. *Symposium* at the Xth European Congress of Entomology, University of York, York, UK. Aug. 2014 (60 attendees)
4. **Hooks, C.R.R.**, H. Kahl and A.W. Leslie. 2018. *Symposium title*: Application of Trap and Cover Crops in Integrated Pest Management. *Talk title*: Can red clover play a role in conventional and organic IPM programs. *Symposium* at the 9th International IPM Symposium, Baltimore, MD, March 19-22.
 5. Shrewsbury, P., A. L. Jones[#], **C.R.R. Hooks**, M.J. Raupp and D. E. Jennings. 2016. *Symposium title*: Biological control of the invasive brown marmorated stink bug, *Halyomorpha halys*, by exotic and native parasitoids and predators: A global perspective. *Talk title*: Survey and impact of native natural enemies on the invasive brown marmorated stink bug, *Halyomorpha halys*, in ornamental nurseries in the eastern United States. XXV International Congress of Entomology, Orlando, FL September 25-30.
 6. Lamp, W.O., **C.R.R. Hooks**, Q. Wang and G. Dively. 2016. *Symposium title*: Aquatic entomology around the world. *Talk title*: Bt maize and streams: Risk of exposure and hazard to aquatic insects. International Congress of Entomology, Orlando, FL September 25-30.

II.E.1.1 National

Pre-tenure

1. **Hooks, C.R.R.** and M. W. Johnson. 2000. Effects of nonhost plants on *Artogeia rapae* and other lepidopterous herbivores in diverse cruciferous habitats. Entomological Society of America Pacific Branch meeting, Costa Mesa, California.
2. **Hooks, C.R.R.** and R. Manandhar. 2007. *Symposium title*: Integrating Integrated Pest Management symposium. *Talk title*: Integrating mixed cropping and living mulches into vegetable production systems. Entomological Society of America National Meeting, San Diego, California. Dec. 9-12.
3. Wang, K.-H., **C.R.R. Hooks**, R. Manandhar, R. McSorley, W. Klassen, D. Seal. 2007. *Symposium title*: Integrating Integrated Pest Management symposium. *Talk title*: Effects of cover crops and intercrops on plant-parasitic nematodes, weeds, and nutrient cycling arthropods. 2007 Annual Meeting of the Entomological Society of America, San Diego, CA. December 9-12, 2007.
4. **Hooks, C.R.R.**, M. Leikveishvili and K.-H. Wang. 2011. Entomological Society of America National meeting, *Symposium title*: Advances in Acarology. *Talk title*: Impact of cover cropping on mites and other soil organisms. Entomological Society of America Annual Meeting, Reno, NV. Nov 13-16.
5. **Hooks, C.R.R.**, A. Rosario-Lebron, J. Hinds and E. Zobel. 2012. *Symposium title*: Proceeding Along the IPM Continuum: Developing Multifaceted Approaches for Invasive Species. *Talk title*: Influence of winter cover crops and flowering borders on brown marmorated stink bug mortality. Entomological Society of America Annual Meeting, Knoxville, TN. Nov 11-14.

Post-tenure

6. Wang, K.-H. and **C.R.R. Hooks**. 2013. *Symposium title*: Impact of Soil Conservation Practices on Agroecosystem Health. *Talk title*: Effects of Surface Mulch on Soil Health Conditions in Conservation Tillage Systems. Society of Nematologist 52nd Annual Meeting, Knoxville, TN. July 14-17.

7. **Hooks, C.R.R.**, J. Hinds and Koon-Hui Wang. 2013. *Symposium title*: Impact of Soil Conservation Practices on Agroecosystem Health. *Talk title*. Influence of Sunn hemp and organic fertilizer on the arthropod and nematode community in zucchini plantings. Society of Nematologist 52nd Annual Meeting, Knoxville, TN. July 14-17.
8. ****Lekveishvili, M., C.R.R. Hooks** and G. Dively. 2013. *Symposium title*: Current Advances in Acarology. *Talk title*. Assessment of non-target effects on soil mites induced by corn seed treatments containing high doses of multiple pesticides. Entomological Society of America Annual Meeting, Austin, TX. Nov 10-13.
9. **Hooks, C.R.R.**, J. Hinds and K.H. Wang. 2013. *Symposium title*: Frontiers of IPM: Honoring the Career of Marshall Johnson. *Talk title*. Making cover crops a part of vegetable IPM programs. Entomological Society of America Annual Meeting, Austin, TX. Nov 10-13.
10. Shrewsbury, P., A. Jones, M. J. Raupp and **C. R. R. Hooks**. 2014. *Symposium title*: Member Symposium: New Horizons in Ornamental IPM. *Talk title*: Working towards sustainable management of the exotic brown marmorated stink bug, *Halyomorpha halys*. Entomological Society of America Annual Meeting, Portland, OR. Nov 16-19.
11. Wang, K.-H., G. Chen, Z. Cheng, M. Quintanilla-Tornel S. L. F. Meyer and **C.R.R. Hooks**. 2015. *Symposium title*: Nematodes as indicators for Climate Change, Ecosystem Sustainability, and Food Security. *Talk title*: Contribution of no-till cover cropping to greenhouse gas remediation: Can nematodes tell the tale? Society of Nematologists Conference, East Lansing, MI. July 19-22, 2015
12. ****Buchanan, A, G. Chen, C.R.R. Hooks**. 2015. *Symposium title*: Management and Biological Control of Weeds in Agroecosystems. *Talk title*: Cover crop diversity and management for weed control in organic agro-ecosystems. Entomological Society of America Annual Meeting, Minneapolis, MN. Nov 15-18, 2015.
13. ***Rosario-Lebron, A., G. Chen and C.R.R. Hooks**. 2015. *Symposium title*: Vegetation Management for Beneficial Insect Conservation in Agroecosystems. *Talk title*: Giving winter cover crops a larger role in conservation biological control. Entomological Society of America Annual Meeting, Minneapolis, MN. Nov 15-18, 2015.

II.E.1.1 Regional

Pre-tenure

1. **Hooks, C.R.R.**, J. Hinds, K.-H. Wang⁺ and R. Manandhar. 2010. Trying to mitigate pest problems in temperate-zone grown vegetables by use of a tropical cover crop. North Eastern Entomological Society of America Branch meeting, Annapolis, MD March 07-09, 2010.
2. Wang, K.-H., **C.R.R. Hooks** and J. Hinds. 2012. Using cover crops/insectary plants to enhance above and below ground beneficial organisms. *In*: (Organized by Rick Melnicoe, WIPM Center). Protecting beneficials in Hawai'i and the American Pacific: A workshop on the conservation of pollinators and other beneficial species. April 18-19, 2012. Hilton Waikiki Beach Hotel, Honolulu, HI.

Post-tenure

3. ***Rosario-Lebron, A. and C.R.R. Hooks**. 2014. *Symposium title*: Special Session for Spanish-Speaking Employees -Techniques for Production of Fruits and Vegetables. *Talk title*: Making Beneficial Arthropods a Part of an Orchard IPM Program. Mid-Atlantic

- Fruit and Vegetable Convention, Hershey Lodge and Convention Center, Hershey, PA. January 29-31, 2014. Attendance 31
4. Shrewsbury, P., C. Dieckhoff, K. Hoelmer, **C. Hooks**, L. Hunt[#], A. Jones[#], A. Rosario-Lebron[#] and J. Walgenbach. 2014. *Symposium title*: Are we winning the battle against invasive pests? The brown marmorated stink bug and spotted wing drosophila. *Talk title*: The who, where and what for indigenous natural enemies attacking brown marmorated stink bug. Eastern Branch Entomological Society of America Annual Meeting in Williamsburg, VA. March 15-18, 2014. (100 Attendees)
 5. **Hooks, C.R.R.** and G. Chen 2016. *Symposium title*: Organic Vegetables. *Talk title*: Can reduced tillage and cover crop residue be used to manage weeds in organically grown vegetables? Mid-Atlantic Fruit and Vegetable Convention, Hershey Lodge and Convention Center, Hershey, PA. February 02-04, 2016. Attendance. 90
 6. **Hooks, C.R.R.** and H. Kahl. 2017. *Symposium title*: General Vegetables. *Talk title*: Using red clover mulch to improve insect management, yield and environmental quality in peppers and cucumbers. Mid-Atlantic Fruit and Vegetable Convention, Hershey Lodge and Convention Center, Hershey, PA. January 31- February 02, 2017. Attendance. 120
 7. *Hunt, L.G. and **C.R.R. Hooks**. 2017. *Symposium title*: Recent developments in IPM by students and early career professionals in the Eastern US. *Talk title*: Does partridge pea, as an insectary plant, enhance beneficial arthropod communities? Eastern Branch Entomological Society of America. Newport, Roanoke.
 8. **Leslie, A. and **C.R.R. Hooks**. 2018. *Symposium title*: Organic Vegetables. *Talk title*: Managing weeds in organic vegetables. Mid-Atlantic Fruit and Vegetable Conference. Hershey, PA January 30, Attendance: 80
 9. Hamby, K., **C.R.R. Hooks**, A. Leslie⁺ and E. Zobel. 2018. *Symposium title*: Applied Agriculture and Ag-Industry Symposium. *Talk title*: Research with Dectes stem borer and other current research projects in Maryland. Eastern Branch Entomological Society of America. Annapolis, MD. March 17-19.
 10. **Hooks, C.R.R.** 2019. *Symposium title*: Organic Vegetables. *Talk title*: The case for spider conservancy in organic agroecosystems. Mid-Atlantic Fruit and Vegetable Conference. Hershey, PA January 29, Attendance: 17
 11. **Leslie, A., H. Kahl, **C.R.R. Hooks**. 2019. *Symposium title*: Peppers/Eggplant. *Talk title*: Chronicles of a perennial cover crop's journey into managing pests. Mid-Atlantic Fruit and Vegetable Conference. Hershey, PA January 31, Attendance: 52

II.E.2. Submitted talks scientific conferences

II.E.2.1. International

Post-tenure

1. Wang, K.-H. and **C.R.R. Hooks**. 2014. Benefits of mix cover cropping on soil health. 6th International Congress of Nematology. May 4-9, Cape Town, South Africa
2. *Coffey, P. and **C.R.R. Hooks**. 2016. Cover crop residues and their effects on pest beetle populations in vegetables. XXV International Congress of Entomology, Orlando, FL September 25-30.
3. *Kahl, H. and **C.R.R. Hooks**. 2016. Effects of red clover living mulch on arthropod communities and cucurbit yield. XXV International Congress of Entomology, Orlando, FL September 25-30.

4. **Leslie, A., G. Chen and **C.R.R. Hooks**. 2016. Using strip tillage and living mulches to build an ecologically based pest management program. XXV International Congress of Entomology, Orlando, FL September 25-30.
5. **Leslie, A. and **C.R.R. Hooks**. 2018. Living mulch as a tool for integrated weed management in organic vegetables. The 9th International IPM Symposium, Baltimore, MD, March 19-22 (Poster Presentation).

II.E.2.2. National

Pre-tenure

1. **Hooks, C.R.R.** 1997. Population dynamics of pests and arthropod natural enemies in zucchini grown with living mulches. ESA Annual Meeting, Nashville, Tennessee.
2. **Hooks, C.R.R.** and M. W. Johnson. 1998. Intercropping effects on broccoli growth and settlement by lepidopterous pest and potential control agents. Entomological Society of America Annual Meeting, Nevada, Las Vegas.
3. **Hooks, C.R.R.** and M. W. Johnson. 2000. Influence of warm-season living mulches on natural enemies of lepidopterous pests populating a broccoli agroecosystem. Entomological Society of America Annual Meeting, Montreal, Canada.
4. **Hooks, C.R.R.** and M. W. Johnson. 2001. Impact of living mulches on lepidopteran pest of broccoli in Hawaii. Entomological Society of America Annual Meeting, San Diego, California.
5. **Hooks, C.R.R.**, R. R. Pandey, and M. W. Johnson. 2002. Can insectivorous birds and spiders influence caterpillar pest densities and broccoli growth performance? Entomological Society of America Annual Meeting, Fort Lauderdale, Florida.
6. **Hooks, C.R.R.**, R.R. Pandey, and M.W. Johnson. 2003. The effect of spiders on the larval survivorship of *Artogeia rapae* inhabiting broccoli plants. Entomological Society of America Annual Meeting, Cincinnati, Ohio.
7. **Wang, K.-H., and **C.R.R. Hooks**. 2008. Distribution of *Helicotylenchus multicinctus* and their associated natural enemies in banana plantings in Hawaii. Centennial Meeting of the American Phytopathological Society (APS) at Minneapolis, MN. Aug 2008.
8. **Hooks, C.R.R.**, S. Fukuda, E.A. Perez, D. Kabasawa, M.G. Wright, R. Manandhar, K.-H. Wang, and R.P.P. Almeida. 2008. The virulence of *Banana bunchy top virus* in banana plants after injection with a bananacide. Centennial Meeting of the American Phytopathological Society (APS) at Minneapolis, MN. Aug 2008.
9. **Hooks, C.R.R.**, T. Patton, J. Hinds and E. Zobel. 2009. Using crimson clover as a dying mulch: influence on yield and insects in eggplant. Entomological Society of America Annual Meeting, Indianapolis, IN Dec 13-16, 2009.
10. Wang, K.-H., **C.R.R. Hooks**, S. P. Marahatta and R. Manandhar. 2010. Use of a strip-till cover crop system to manipulate above and below ground organisms in cucurbit plantings. 2010 Meeting of the American Phytopathological Society (APS) at Charlette, NC. Aug 2010.
11. **Hooks, C.R.R.**, E. Zobel, A. Anderson, T. Patton, J. Hinds, T. Larmore and A. Rosario-Lebron. 2010. Management of the Colorado potato beetle (*Leptinotarsa decemlineata*) through modification of the eggplant environment. Entomological Society of America Annual Meeting, San Diego, CA Dec 12-15, 2010.
12. *Jones, A. L., **C.R.R. Hooks** and P. M. Shrewsbury. 2012. Survey and Evaluation of Indigenous Natural Enemies of Brown Marmorated Stink Bug in Field, Vegetable and

Ornamental Crops. Entomological Society of America Eastern Branch 83rd Annual Meeting, March 16-19, Hilton Hotel, Hartford, CT.

13. *Jones, A. L., **C.R.R. Hooks** and P. M. Shrewsbury. 2012. Indigenous natural enemies of the brown marmorated stink bug. Entomological Society of America Annual Meeting, November 11-14, Knoxville Convention Center, Knoxville, TN.
14. Herbert, D. A., G.P. Dively, K. L. Kamminga, D. R. Owens, J. Whalen, **C.R.R. Hooks**, P. Dilip Venugopal and P. Coffey. 2012. Impact and management of brown marmorated stink bug in mid-Atlantic soybean. Entomological Society of America Annual Meeting, November 11-14, Knoxville Convention Center, Knoxville, TN.
15. *Lekveishvili, M. and **C.R.R. Hooks**. 2012. The impact of different agricultural management practices on mite assemblages in soil. Entomological Society of America Annual Meeting, November 11-14, Knoxville Convention Center, Knoxville, TN.

Post-tenure

16. **Chen, G., **C.R.R. Hooks**, L. Kolb, R. R. Weil and M. A. Cavigelli. 2013. Greenhouse Gas Emissions Affected by Tillage, Surface Mulch and Fertilization Managements for Organic Vegetable Productions. American Society of Agronomy | Crop Science Society of America | Soil Science Society of America International Annual Meeting. Nov. 3-6, Tampa, FL.
17. *Jones, A. L., **C.R.R. Hooks** and P. M. Shrewsbury. 2013. Indigenous natural enemies of the brown marmorated stink bug in ornamental nurseries. Entomological Society of America Annual Meeting, Austin, TX. Nov 10-13. (75 attendees)
18. *Zobel, E., **C.R.R. Hooks** and G. Dively. 2013. The feeding habits of the brown marmorated stink bug, *Halyomorpha halys* (Heteroptera) on select vegetable crops. Entomological Society of America Annual Meeting, Austin, TX. Nov 10-13.
19. Meyer, S.L.F., I.A. Zasada, S.M. Rupperecht, **C.R.R. Hooks**, M.J. Morra and K. Everts. 2014. Mustard seed meal amendments applied for suppressing *Meloidogyne incognita* on tomato. American Phytopathological Society Annual Meeting. Aug 09-13, Minneapolis, MN
20. **Buchanan, A., G. Chen and **C.R.R. Hooks**. 2014. Soil disturbance and ground cover: How weed communities and weed seed predators respond to tillage and cover crop residue in organic agricultural systems. 99th Ecological Society of America Annual Meeting, Sacramento, CA. Aug. 10-15.
21. Venugopal, P. D., P. Coffey, T. Patton, A. Herbert, **C. Hooks**, J. Whalen, and G. Dively. 2014. Impact of the invasive brown marmorated stink bug, *Halyomorpha halys* Stal, on soybean seed quality, yield and delayed senescence. Entomological Society of America Annual Meeting, Portland, OR. Nov 16-19.
22. *Rosario-Lebron, A., G. Chen and **C.R.R. Hooks**. 2014. Barley residue and herbicide management practices: Effects on insect and weeds in soybean. Entomological Society of America Annual Meeting, Portland, OR. Nov 16-19.
23. *Hunt, L. G. and **C.R.R. Hooks**. 2015. Diversifying the arthropod community with partridge pea: Increasing natural enemies and controlling pests in organic field corn. Ecological Society of America. Baltimore, MD August 09-14, 2015. (Poster Presentation).

24. *Coffey, P., G. Chen and **C.R.R. Hooks**. 2015. Cover crops: Controlling pests at multiple trophic levels. Ecological Society of America. Baltimore, MD August 09-14, 2015 (Poster Presentation).
25. *Coffey, P., G. Chen⁺ and **C.R.R. Hooks**. 2015. Cover crops: Controlling pests at multiple trophic levels. Entomological Society of America Annual Meeting, Minneapolis, MN. Nov 15-18, 2015.
26. *Hunt, L. G. and **C.R.R. Hooks**. 2015. Influence of partridge pea on arthropod and grain quality in organic field corn. Entomological Society of America Annual Meeting, Minneapolis, MN. Nov 15-18, 2015.
27. *Kahl, H. and **C.R.R. Hooks**. 2015. Effects of red clover living mulch on arthropod communities and bell pepper yield. Entomological Society of America Annual Meeting, Minneapolis, MN. Nov 15-18, 2015.
28. **Leslie, A. and **C.R.R. Hooks**. 2018. Using living mulch and strip tillage to suppress weeds in organic vegetables. Weed Science Society of America. Arlington, VA, Jan 29-Feb 1, 2018
29. *Yurchak, V. L., A. W. Leslie, **C.R.R. Hooks**. 2019. Living mulch as a tool for integrated weed management in organic vegetables. Weed Science Society of America. New Orleans, LA, February 11-14

II.E.2.3. Regional

Pre-tenure

1. **Hooks, C.R.R.** and M. W. Johnson. 1998. Lepidopterous pest populations and crop yield on row intercropped broccoli. Pacific Branch Entomological Society of America Meeting, Honolulu, HI.
2. **Hooks, C.R.R.** and M. W. Johnson. 1999. Effect of nonhost plants on yield and level of head infestation in a broccoli habitat. Pacific Entomology Conference, Hawaiian Entomological Society of America Annual meeting, Honolulu, HI.
3. **Hooks, C.R.R.** and M. W. Johnson. 1999. Impact of flora diversification on lepidopterous pests in a broccoli ecosystem. Pacific Entomology Conference, Hawaiian Entomological Society of America Annual meeting, Honolulu, HI.
4. Dively, G.P., J. Whalen, B. Cissel, A. Herbert, T. Kuhar, K. Kamminga, S. Malone, D. Owens, G. Hamilton, J. Ghidiu, **C.R.R. Hooks**, T. Patton, J. Brust, S. Fultz and E. Zobel. 2011. BMSB impact on vegetable and field crops in the Mid-Atlantic and research plans for 2011. Entomological Society of America Eastern Branch 83rd Annual Meeting March 16-19, Hilton Hotel, Hartford, CT.
5. *Jones, A. L., Shrewsbury, P. M., and **Hooks, C.R.R.** 2013. Natural enemies associated with the brown marmorated stink bug in ornamental nurseries. Entomological Society of America Eastern Branch 84th Annual Meeting, March 16-19, Edon Resort and Suite. Landcaster, PA.

Pos-tenure

6. **Leslie, A., K. Hamby, and **C.R.R. Hooks**. 2015. Multitasking marigold to strengthen organic IPM in lima bean and other bean crops. Mid-Atlantic Vegetable and Small Fruit Workers Conference. Newark, DE November 04-05, 2015 Attendance 24

7. *Kahl, H. and **C. Hooks**. 2016. Effects of red clover as living mulch on insect communities and bell pepper yield. The Northeastern plant, pest, and soils conference. Philadelphia, PA January 3-7.
8. *Johnson, V. L., G. P. Dively and **C. Hooks**. 2016. Post-harvest practices and environmental factors alter the degradation of CRY proteins in genetically engineered corn debris. The Northeastern plant, pest, and soils conference. Philadelphia, PA January 3-7.
9. *Coffey, P. and **C.R.R. Hooks**. 2016. Cover crops, tillage, and pests in eggplant fields. The Northeastern plant, pest, and soils conference. Philadelphia, PA January 3-7.
10. **Leslie, A.W., K.A. Hamby and **C. Hooks**. 2016. A push-pull method for the control of Mexican bean beetle in lima beans. Northeastern plant, pest, and soils conference. Philadelphia, PA January 3-7.

II.E.2.4. Local

Post-tenure

1. **Hooks, C.R.R.** Using cover crops as part of organic IPM. 2014. 4th Annual Northeast Area- BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD.
2. *Hunt, L. G. and **C.R.R. Hooks**. 2014. Effects of habitat manipulation on pest management in organic field corn systems. 4th Annual Northeast Area-BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD (Poster presentation).
3. **Buchanan, A. and **C.R.R. Hooks**. 2014. Ecological effects of winter cover crops on organic vegetable production. 4th Annual Northeast Area- BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD (Poster presentation).
4. *Rosario-Lebron, A. and **C.R.R. Hooks**. 2014. Barley residue and herbicide management practices: effects on insects and weeds in soybean. 4th Annual Northeast Area- BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD (Poster presentation).
5. *Coffey, P. L., G. Chen and **C. R. R. Hooks**. 2014. Economic optimization of cover crops and sterile seedbed techniques for eggplant production. 4th Annual Northeast Area- BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD (Poster presentation).

Other invited scientific presentation

Pre-tenure

1. **Hooks, C.R.R.** 2011. Natural Enemies of the Brown Marmorated Stink bug: a preliminary assessment of their impact in eggplant, pepper, corn, and soybean. Brown Marmorated Stink Bug OREI Planning Meeting, Beltsville, MD. Oct 18, 2011. Attendance 26
2. *Hinds, J. and **C.R.R. Hooks**. 2012. Integrating cover crops into IPM. Special Invitation Talk. University of Hawaii at Manoa Campus, Honolulu, HI. March,
3. **Hooks, C.R.R.** 2012. NSF Research Experience for Undergraduates (REU) Site. The experience of minority researchers through the academy – at work and at home. The

National Museum of Natural History at the Smithsonian Institution in Washington, D.C. July 18, 2012.

4. **Hooks, C.R.R.**, R. Manandhar, J. Hinds, E. Zobel, K.-H. Wang and T. Patton. 2012. Evaluating companion plants to protect crops from multiple pest complexes. Special Brown Bag Lunch Presentation: National Institute of Food and Agriculture, USDA Waterfront Center, Washington, D.C.
5. **Hooks, C.R.R.**, A. Jones, K. Kamminga, J. Whalen, J. Tooker, P. Shrewsbury and T. Kuhar. 2012. Biology, Ecology and Management of Brown Marmorated Stink Bug in Orchard Crops, Small Fruit, Grapes, Vegetables and Ornamentals: Emphasis on Native Natural Enemies. Stakeholder Advisory Panel Meeting. USDA, Appalachian Fruit Research Station, Kearneysville, WV, November 28, 2012.

Post-tenure

6. **Hooks, C.R.R.** 2013. NSF Research Experience for Undergraduates (REU) Site. The experience of underrepresented persons while obtaining a PhD in science, their lives before, and the careers that have followed. The National Museum of Natural History at the Smithsonian Institution in Washington, D.C. June 24, 2013.
7. **Hooks, C.R.R.** 2013. *Talk I.* Providing Northeast Growers Added Weaponry to Integrate into their Arsenal against Eggplant Pests. *Talk II.* Developing ecological pest management plans for weed and insect pests of leguminous and solanaceous vegetables. Special Presentation: North-East Regional IPM Center Personnel. November 07, College Park, MD
8. **Hooks, C.R.R.**, K.-H. Wang, A. Rosario-Lebron, J. Hinds, E. Zobel, L. Kolb, M. Lekveishvili, G. Chen, A. Buchanan and G. Brust. 2014. Using winter cover crops to enhance the organic vegetable industry in the mid-Atlantic region. Organic Programs Project Director Meeting. National Institute of Food and Agriculture, USDA Waterfront Center, Washington, D.C. Jan 13-14.
9. ****Chen, G. and C.R.R. Hooks.** 2014. The Influence of Cover Crops and Tillage on Soil Quality, Greenhouse Gas Emissions, Pest Community Dynamics, and Economics of Fields Transitioning to Organic Farming (Poster Session). Organic Programs Project Director Meeting. National Institute of Food and Agriculture, USDA Waterfront Center, Washington, D.C. Jan 13-14.
10. ****Chen G., L. Kolb, M. Lekveishvili, R.R. Weil, and C.R.R. Hooks.** 2014 The Influence of Cover Crops and Tillage on Soil Quality, Greenhouse Gas Emissions, Pest Community Dynamics, and Economics of Fields Transitioning to Organic Farming. 2014 USDA NIFA Organic Programs Project Directors Meeting. Oct. 21-22, 2014. Washington D.C.
11. **Hooks, C.R.R.** 2015. Using cover crops as part of organic IPM. AGNR International Programs in Agriculture and Natural Resources. Northwest Agriculture and Forestry University (Chinese Delegation). October 07, 2015. International Delegation
12. **Hooks, C.R.R.** 2015. Using cover crops as part of organic and conventional IPM farming systems. Virginia Tech University Agriculture and Environment Seminar Series. October 20, 2015. Blacksburg, VA. Attendance 50
13. ****Leslie, A. and C.R.R. Hooks.** 2017. Using strip tillage to help organic producers build an ecologically based weed management program. 2017 USDA NIFA AFRI Critical Agricultural Research and Extension (CARE) Project Directors Meeting. June 01, 2017.
14. **Hooks, C.R.R.**, L. Hunt and A. Leslie. 2018. Managing the Brown Marmorated Stink Bug and Other Threats to Agriculture Study Tour. Arranged by World Learning Inc.

Presentation topic: Research on the impact of habitat manipulation on stink bug natural enemies. (Abkhazia Delegation) March 26, 2018. College Park, MD. International Delegation

15. Palevsky, E., J. D. Mowery, R. Ochoa, L. Carta, G. de Moraes, L. Azevedo, **C. Hooks** and G. Bauchan. 2019. Effect of free-living nematode supplementation on conservation biological control of soil pests. The 30th Annual Beltsville Poster Day. USDA ARS National Agricultural Library, Beltsville, MD, April 23 (Poster presentation)

II.E.3. Refereed Abstract

Pre-tenure

1. *Perez, E.A., **Hooks, C.R.**, Wang, K., Wright, M.G., Almeida, R.P., Manandhar, R. 2008. The virulence of Banana bunchy top virus in banana plants after injection with a bananacide. *Phytopathology* 98 (6): S124-S124
2. *Wang, K., **Hooks, C.R.** 2008. Effects of two cover crops on nematode communities in *Helicotylenchus multicinctus* infested banana fields. *Phytopathology* 98 (6): S166-S166
3. Wang, K., **Hooks, C.R.**, Marahatta, S.P. 2010. Use of a strip-till cover crop system to manipulate above and below ground organisms in cucurbit plantings. *Phytopathology* 100(6): S133-S133

Post-tenure

4. **Hooks, C.R.R.**, Hinds, J., Wang, K.-H. 2013. Influence of sunn hemp and organic fertilizer on the arthropod and nematode community in zucchini plantings. *J. Nematol.* 45(4): 294-294.
5. Wang, Koon-Hui, **Hooks, C.R.R.** 2013. Effects of surface mulch on soil health conditions in conservation-tillage systems. *J. Nematol.* (4): 294-294.
6. Meyer, S.L.F., Zasada, I.A., Rupprecht, S.M., **Hooks, C.R.**, Morra, M.J., Everts, K.L. 2014. Mustard seed meal amendments for suppression of *Meloidogyne incognita* on tomato. *Phytopathology* 104(11): 80-80
7. Wang, K.H. and **C.R.R. Hooks**, 2014. Benefits of mix cover cropping on soil health. *J. Nematol.* 46(2): 254-254
8. Wang, K-H, Chen, G., Cheng, Z.; Quitanilla-Tornel, M., **Hooks, C.R.R.** 2015. Contribution of no-till cover cropping to greenhouse gas remediation: can nematodes tell the tale? *J. Nematol.* 47(3): 275-275

II.F. Professional and Extension Publications

NOTE: For each extension publication listed below, the first author generally wrote a majority of the paper. The last author may have contributed similarly as the first author in cases where the last author mentored the first author. To identify such cases, a single plus (+) indicates the first author was an undergraduate in my lab, a single asterisk (*) denotes that the first author was a graduate student in my program, whereas a double asterisk (**) denotes that the first author was either a Post-doctoral Associate or Research Associate in or associated with my program.

II.F.1. Non-refereed extension publications

Pre-tenure

1. H. Valenzuela, J. McHugh, **C.R. Hooks**, and S. Riede. 1996. Zucchini Elite. Vegetable Crops Update. 3(6): 1-12.
2. H. Valenzuela, D. Sato, M. Yamasaki, G. Machira, R. Cupples, S. Riede, and **C.R. Hooks**. 1996. Daikon Variety Trials: Vegetable Crops Update. 3(2): 1-7.
3. H. Valenzuela and **C. Hooks**. 1996. Bell pepper cultivar trial. Vegetable Crops Update. 6(2): 7-9.
4. **Hooks, C.R.R.**, K-H Wang, and D. Fallon. 2006. An ally in the war against nematode pests: Using sunn hemp as a cover crop to suppress root-knot nematodes. CTAHR Coop. Ext. Serv. Plant Dis. Apr. 2006, 3 pp.
5. **Hooks, C.R.R.**, R.R. Pandey, and M.W. Johnson. 2007. Unlikely guardians of cropping systems: Can birds and spiders protect broccoli from caterpillar pests? CTAHR Coop. Ext. Serv. Insect Pests. May 2007, 6 pp.
6. **Hooks, C.R.R.**, and M.W. Johnson. 2007. Using clovers as living mulches to boost yields, suppress pests, and augment spiders in a broccoli agroecosystem. CTAHR Coop. Ext. Serv. Insect Pests. May 2007, 6 pp.
7. **Hooks, C.R.R.**, Pandey, R.R. and M.W. Johnson. 2007. Evaluating spiders for their potential to control cabbage white butterflies (*Pieris rapae*). CTAHR Coop. Ext. Serv. Insect Pests. May 2007, 4 pp.
8. **Hooks, C.R.R.**, A. Fereres and K.-H. Wang. 2007. Using protector plants to guard crops from aphid-borne non-persistent viruses. CTAHR Coop. Ext. Serv. Insect Pests. June 2007, 7 pp.
9. ****Wang, K.-H., C.R.R. Hooks**, and A. Ploeg. 2007. Protecting crops from nematode pests: using marigold as an alternative to chemical nematicides. CTAHR Coop. Ext. Serv. Insect Pests. July 2007, 7 pp.
10. **Hooks, C.R.R.**, K. Chandara, D. Fallon, K.-H. Wang, and R. Manandhar. 2007. The impact of sunn hemp cover cropping on below-ground organisms and nutrient status associated with a cucumber planting. CTAHR Coop. Ext. Serv. Insect Pests. Soil and Crop Management, SCM-21 Oct 2007, 7 pp.
11. **Hooks, C.R.R.** and M.G. Wright. 2008. Use of a living and dying mulch as barrier plants to protect zucchini from insect caused viruses and phytotoxemias. CTAHR Coop. Ext. Serv. Insect. Plant Dis., PD-36 Jan 2008, 8 pp.
12. ****Perez, E. and C.R.R. Hooks**. 2008. Preparing tissue-cultured banana plantlets for field planting. CTAHR Coop. Ext. Serv. Insect. Biotechnology, BIO-8 Mar 2008, 3 pp.
13. **Hooks, C.R.R.** 2008. Using a Special Cover Crop to Support the Production Needs of Maryland's Sustainable Agriculture and Organic Vegetable Industry. Anne Arundel County AGNR Newsletter. Fall 2008 edition - Production Pointers, 1 pg.
14. ****Wang, K.-H. + and C.R.R. Hooks**. 2009. Survey of nematodes on banana in Hawaii and methods used for their control. CTAHR Cooperative Extension Service PD-69. 7 pp. <http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-69.pdf>
15. ****Wang, K.-H. and C.R.R. Hooks**. 2009. Strip-till cover cropping and row switching techniques. Hānai‘Ai Newsletter, Winter 2009, 3 pp. [http://www.ctahr.hawaii.edu/sustainag/Downloads/Strip-till row-switching.pdf](http://www.ctahr.hawaii.edu/sustainag/Downloads/Strip-till%20row-switching.pdf).

16. **Hooks, C.R.R.** and J. Hinds. 2009. Managing slugs in the garden and beyond. University of Maryland, AGNR Coop. Ext. FS 822, 8 pp.
17. Anonymous. 2009 and 2010. Pest Management Recommendation for Field Crops Bulletin 237. UM, UD, PSU, RU, VPI & SU, WVU Cooperative Ext. Services. **C.R.R. Hooks** contributing author to chapters: "Insect Pest Management for Field Crops" and "Insect Pest Management Guidelines for Stored Grain".
18. **Hooks, C.R.R.** 2010. A potential early season bully of soybeans. University of Maryland Extension Agronomy News 1(6): 2-3.
19. **Hooks, C.R.R.** 2010. Drunken aliens in soybean fields. University of Maryland Extension Agronomy News 1(7): 3.
20. *Hinds, J. and **C.R.R. Hooks**. 2010. Sunn Hemp: A superhero cover crop! University of Maryland Extension Vegetable and Fruit Headline News 11: 5-6
21. *Rosario-Lebron, A. and **C.R.R. Hooks**. 2010. More than an ornamental? Marigolds as a natural pest solution. University of Maryland Extension Vegetable and Fruit Headline News 12: 4-5.
22. **Hooks, C.R.R.** 2010. Added weaponry for integration into the arsenal against eggplant pests. University of Maryland Extension Vegetable and Fruit Headline News 12: 5.
23. **Hooks, C.R.R.** 2010. Foliage-feeding caterpillars and action thresholds in soybeans. University of Maryland Extension Agronomy News 1(11): 1-2.
24. Sargent, C., G. Dively, **C. Hooks**, M. J. Raupp, S. Sardanelli, P. Shrewsbury, D. Clement, M. K. Malinoski. 2010. Exotic Pest Threats: Brown Marmorated Stink Bug Bulletin. Maryland Extension, UMD Entomology Bulletin 7 pp.
25. Wang, K.-H., B.S. Sipes and **C.R.R. Hooks**. 2010. Environmental friendly approaches for managing nematodes and weeds on pineapple. Pineapple News 17: 27-32. <http://www.ishs-horticulture.org/workinggroups/pineapple/PineNews17.pdf>.
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Post-tenure

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78. Joseph, D., A.W. Leslie and **C.R.R. Hooks**. 2020. Herbicides and integrated weed management. *Vegetable and Fruit Headline News*. Special Alert Edition: Weed Control. May 18, 2020. pg. 1-8.

79. **Hooks, C.R.R.**, A.W. Leslie and D. Joseph. 2020. Biological control: An overlooked integrated weed management tool. Vegetable and Fruit Headline News. Special Alert Edition: Weed Control. May 27, 2020. pg. 1-8.
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81. **Hooks, C.R.R.**, A.W. Leslie and D. Joseph. 2020. Integrated weed management with plasticulture: The good, the bad and the ugly. Vegetable and Fruit Headline News. Special Alert Edition: Weed Control. June 03, 2020. pg. 1-6.
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¹Agronomy News is a University of Maryland Extension Publication, Andrew Kness, Editor

²Vegetable and Fruit Headline News is a University of Maryland Extension Publication, Editor Ronald D. Myers

II.F.2. Others (Films, CDs, Photographs, Webpages, Online presentations, etc.)

Pre-tenure

1. **Wang, K.-H. and **C.R.R. Hooks**. 2008. Sunn hemp as a superhero: Sunn hemp for nematode and soil health management. Western region SARE, University of Hawaii, CTAHR, Honolulu, HI. <http://www.youtube.com/user/HIsustainAg> - Field day video (You Tube)
2. **Hooks, C.R.R.** webpage “cerrutirrhookslab.umd.edu” last revised Mar 2019.
3. **Hooks, C.R.R.** 2011. Organic Crop Production and the Brown Marmorated Stink bug. <http://www.youtube.com/watch?v=TiWMY6vQ0fw> (You Tube)
4. **Hooks, C.R.R.** 2011. Agronomy Day 2012 Crop Pest-Insecticide Update (You Tube)
5. <http://www.youtube.com/watch?v=QWoCQ02vTtw&feature=relmfu> (You Tube)

Post-tenure

6. **Hooks, C.R.R.**, Armando-Rosario, L. and L. G. Hunt. 2013. Biological control (Part 8), Tracking the Brown Marmorated Stink Bug - Video Series. <http://www.stopbmsb.org/more-resources/video-series/> (interview contributors)
7. **Hooks, C.R.R.**, Organic Production 2016 - The Use of Plant Diversification and Cover Crops for Pest Management. <https://www.youtube.com/watch?v=KsWyLtS14OI>. Posted March 31, 2016
8. **Hooks, C.R.R.** Integrated weed management in vegetables: Can we do away with tillage? 2016. <https://www.youtube.com/watch?v=5bF91MjGiI0> Posted November 30, 2016.
9. **Hooks, C.R.R.**, G. Chen, and A. W. Leslie. 2018. Can living mulches be deployed into conservation tillage systems to support the fight against weeds? The University of Maryland Extension, Organic Production Meeting: Grain, Dairy, Vegetables and Poultry, Chesapeake College Wye Mills, MD March 09th. <https://youtube.com/ZAjQOEbb05o>

10. **Hooks, C.R.R.** 2020. Ecological pest management: Deploying strategies used in a sporting event to manage insect pests. Posted February 18, 2020.
<https://umd.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=f2d370af-9090-4c4e-bcc0-ab65012059b3>
11. **Hooks, C.R.R.** 2020. Integrated weed management and tools of prevention. Posted April 15, 2020.
<https://umd.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=4cc306b9-65d8-4e7c-bbe8-ab9e00e49dd5>

II.G. Sponsored Research and Programs

Contracts and Grants

Pre-tenure summary of funding (indirect + direct costs) as principal and Co-principal investigator (2008-2012)

Project role	Competitive	Industry	Other ¹
Principal Investigator	2,689,304	127,000	118,235
Co-Principal Investigator	698,773	57,870	0
Total (pre-tenure)	3,388,077	184,870	118,235

¹Others consist of cooperative agreements and UMD competitive grants

NOTE: For each proposal listed below, the first author is the PI and generally wrote most of the grant. The last author may have contributed similarly or more than the first author in cases where the last author mentored the first author. To identify such cases, a single asterisk (*) denotes that the first author was a graduate student in my program and a double asterisk (**) indicates that the first author was a Post-doctoral or Research Associate in or associated with my program.

All grants in the list below were funded and those that are on-going are denoted as “active”.

Pre-tenure

1. M. W. Johnson and R. Shimabuku, 1999-2002. Sustainable management of broccoli insect pest with crop diversification USDA – CSREES T-STAR (Tropical and Subtropical Agricultural Research), \$190,683 (senior author, **C.R.R. Hooks**).
2. O. E. Liburd, **C.R.R. Hooks**, and M. G. Wright, 2002-2005. The utilization of living mulches to suppress cucurbit pests USDA – CSREES T-STAR (Tropical and Subtropical Agricultural Research), \$94,500.
3. **C.R.R. Hooks**, M. G. Wright, and O. E. Liburd, 2002-2004. The impact of an annual and perennial living mulch on parasitoids attacking homopterous pests. USDA – CSREES T-STAR (Tropical and Subtropical Agricultural Research), \$17,900.
4. Almeida, R. P. P., **C.R.R. Hooks**, and M. G. Wright, 2004-2005. Ecological pest management. University of Hawaii State sponsored \$13,268.
5. M. G. Wright, **C.R.R. Hooks**, and R. P. P. Almeida, 2004-2007. Cultural management of insect pests: using barrier crops to protect against insect inflicted plant impairments. USDA CSREES IPM - Western Region (Research), \$99,948.
6. **C.R.R. Hooks**, 2005-2006. A superhero without a cape: using the cover crop sunn hemp to feed the soil, suppress nematodes, and smother weeds. Western Region SARE, \$7,716

7. **C.R.R. Hooks**, R.P.P. Almeida, and M. G. Wright, 2006-2007. Disease spread, transmission, virulence and competition: further studies on banana bunchy top virus in Hawaii. USDA – CSREES T-STAR (Tropical and Subtropical Agricultural Research), \$59,710.
8. **C.R.R. Hooks**, R.P.P. Almeida, and M.G. Wright, 2006-2008. The management of banana bunchy top in Hawaii. Western Region SARE, \$120,584 (transferred by R.P.P. Almeida).
9. Fallon, D., **C.R.R. Hooks** and B. Sipes, 2006-2007. Pickleworm control in Cucumber, Zucchini, and Kabocha squash. Hawaii Department of Agriculture, \$24,500.
10. M.G. Wright and **C.R.R. Hooks**, 2006-2007. Banana bunchy top virus: aphid vector distribution and imidacloprid research. USDA CSREES PBARC (Pacific Basin Agricultural Research Center), \$70,000.
11. **C.R.R. Hooks**, 2007-2008. Banana bunchy top virus: aphid vector distribution and imidacloprid research. USDA CSREES PBARC, \$40,000 *amendment*.
12. **C.R.R. Hooks** and B. Sipes, 2006-2009. Using cover crops to build an ecological based pest management program for vegetable production. USDA CSREES CAR (Crops at Risk), \$434,120.
13. **C.R.R. Hooks**, J. Sugano, and E. Perez, 2006-2008. Rehabilitating BBTV infected areas in Hawaii: promoting disease-free planting material in banana fields. USDA CSREES Minor Crops Pest and Disease Control, \$58,013.
14. **C.R.R. Hooks**, 2006-2007. Insect transmission of plant pathogens in Hawaii. USDA Hatch, \$5,000.00.
15. **C.R.R. Hooks**, K.-H. Wang, and D. Fallon, 2006-2007. A superhero without a cape: using the cover crop sunn hemp to feed the soil, suppress nematodes, and smother weeds. USDA CSREES W-SARE (Western Sustainable Agriculture Research and Education Grants), \$10,000.
16. **C.R.R. Hooks** and K.-H. Wang, 2007-2009. Solarization and cover crop as alternatives to soil fumigants for Hawaii pineapple growers. US Environmental Protection Agency, \$90,000.
17. K.-H. Wang, A. Hara, S. Nelson, B.S. Sipes, J. S. Sugano, **C.R.R. Hooks**, and H. Keyser, 2008. Developing management strategies for a newly found plant-parasitic nematode, *Helicotylenchus multicinctus* damaging banana plantings in Hawaii. Hawaii Department of Agriculture, \$33,472.
18. J. Leary, K.-H. Wang, and **C.R.R. Hooks**, 2008. The evaluation of native Hawaiian plants as new cover crop selections in local organic vegetable production. Hawaii Department of Agriculture, \$33,000.
19. **C.R.R. Hooks** and K.-H. Wang, 2008-2009. Improving and extending the superhero status of sunn hemp to other growers in need of help. USDA CSREES (W-SARE), \$10,000.
20. J. Leary, K. H. Wang, and **C.R.R. Hooks**, 2008. Promoting adaptive management with ‘Tropic Sun’ sunn hemp (*Crotolaria juncea*) in Hawaii for ecological strategies in weed control, nematode suppression and nutrient management. USDA CSREES (W-SARE), \$53,768.
21. K.-H. Wang, **C.R.R. Hooks**, and M.G. Wright, 2008-2011. Sunn-Hemp and its allelopathic compounds for vegetable production in Hawaii and beyond USDA CSREES (W-SARE) \$159,699.

22. K.-H. Wang, **C.R.R. Hooks**, D. Rubinoff, E. Perez⁺ and J. Sugano, 2008-2009. Evaluating the potential use of imidacloprid and less susceptible banana cultivars to fight BBTV. USDA CSREES (PBARC), \$10,062.
23. K.-H. Wang, **C.R.R. Hooks**, B. Sipes and M. G. Wright, 2008-2010. Rehabilitating ex-urea and ex-nematicide addicts: demonstrating how a green manure/solarization system can be used to improve soil health while maintaining pineapple productivity. USDA Natural Resources Conservation Service (NRCS), \$75,000.
24. **C.R.R. Hooks** 2009-2010, 2011-2012. Effect of fungicide and insecticide on yield, aphid and beneficial organisms in wheat. Maryland Grain Producers Utilization Board, \$15,000.
25. G.P. Dively and **C.R.R. Hooks**, 2009-2010. Assessment of the off-site value of *Bt* field corn and its economic benefits to other Maryland crops. Maryland Grain Producers Utilization Board, \$7,500.
26. N. Place, S. Sardanelli, **C.R.R. Hooks**..... (10 total) et al., 2009-2010. Building on successful IPM programs in Maryland and expanding IPM outreach through a multi-disciplinary partnership. USDA-CSREES EIPM-CS Coordination Program, \$145,000.
27. G.P. Dively and **C.R.R. Hooks**, 2009-2011. Use Patterns of Neonicotinoid insecticides on cucurbit crops and their potential exposure to honey bees. EPA Region III SAI Grant Program, \$53,292.
28. **C.R.R. Hooks**, S. Sardanelli, K.-H. Wang, and S. Myers. 2009-2011. Impact of Italian rye grass on above and below ground organisms inhabiting soybean fields. Maryland Soybean Board, \$25,000.
29. G.P. Dively and **C.R.R. Hooks**, 2009-2011. Survey of brown marmorated stink bug and assessment of its potential economic impact on soybean production in Maryland. Maryland Soybean Board, \$6,042.
30. G. P. Dively and **C.R.R. Hooks**, 2010-2011. Assessment of regional suppression of European corn borer and corn earworm due to *Bt* corn use. Maryland Grain Producers Utilization Board, \$8,260.
31. **C.R.R. Hooks** and K.-H. Wang, 2010-2013. Using a cereal-legume cover crop mixture to increase nutrient cycling organisms and crop productivity in no-till corn. Maryland Grain Producers Utilization Board, \$40,000.
32. **C.R.R. Hooks**, 2010-2012. Using Conservation Tillage and Cover Crop Mixtures to Enhance Natural Enemies of Nematode Pests. USDA-NIFA TSTAR, \$20,000.
33. G. P. Dively and **C.R.R. Hooks**, 2010-2011. Biology and Economic Status of the brown marmorated stink bug: A new soybean pest. Maryland Soybean Board, \$8,738.
34. D. Gruner, G.P. Dively, and **C.R.R. Hooks**, 2010-2012. Sustainable management of the small hive beetle (*Aethina tumida*), an emerging pest of honey bees. USDA-NIFA NEIPM, \$56,107
35. **C.R.R. Hooks**, 2010-2011. Providing Northeast growers added weaponry to integrate into their arsenal against eggplant pests. USDA-NIFA NEIPM Partnership Grant, \$8,000.
36. **C.R.R. Hooks** et al. (11 total investigators), 2010-2013. Increasing the impact of Maryland's statewide IPM program through multi-disciplinary partnerships. USDA-NIFA EIPM Coordination Program, \$499,176.
37. **C.R.R. Hooks**, K.-H. Wang, G. Brust, and S. Mathew, 2010-2013. Using winter cover crops to enhance the organic vegetable industry in the mid-Atlantic region. USDA NIFA OREI, \$526,781.

38. **C.R.R. Hooks** and G. P. Dively, 2010-2011. The distribution of the brown marmorated stink bug *Halyomorpha halys* and leaffooted bug, *Leptoglossus* sp. in corn fields and their impact on grain yield and quality, Maryland Grain Producers Utilization Board, \$18,000.
39. **C.R.R. Hooks**, 2010-2011. Examining the impact of cover crops and other plants on the hatching behavior of root-knot nematodes. Maryland Grain Producers Utilization Board, \$7,000.
40. G.P. Dively and **C.R.R. Hooks**, 2011-2012. Evaluation of new *Bt* stacked and conventional hybrids for protection against insects, Maryland Grain Producers Utilization Board, \$10,040.
41. G.P. Dively and **C.R.R. Hooks**, 2011-2012. Development of management strategies targeting the brown marmorated stink bug, *Halyomorpha halys* in peppers. USDA NIFA NERIPM Grants program, \$39,960.
42. **C.R.R. Hooks** and M. Lekveishvili, 2011-2013. Effect of habitat manipulation on brown marmorated stink bug and weed management, soil quality and soybean yield. Maryland Soybean Board, \$22,000.
43. G.P. Dively and **C.R.R. Hooks**, 2011-2012. Chemical Control Application Strategies for Management of the Brown Marmorated Stinkbug. Maryland Soybean Board, \$6,290.
44. G.P. Dively and **C.R.R. Hooks**, 2011-2013. Monitoring and Management of Brown Marmorated Stink Bug in Processing and Fresh Market Sweet Corn. STMD-Maryland Department of Agriculture, \$32,056.
45. Wang, K.-H., **C.R.R. Hooks**, and J. Sugano, 2011-2013. An integrated disease management program for banana industries in the Pacific islands. USDA NIFA Western IPM \$99,689.
46. **C.R.R. Hooks** et al. (UMD subcontract institution, 18 total), 2011-2014. Biology, Ecology, and Management of Brown Marmorated Stink Bug in Orchard Crops, Small Fruit, Grapes, Vegetables, and Ornamentals. USDA NIFA SCRI, \$697,467 (UMD portion).
47. **L. Kolb, M. Leikveishvili, R. Weil, and **C.R.R. Hooks**. 2011-2014. The influence of cover crops and tillage on soil quality, greenhouse gas emissions, pest community dynamics, and economics of fields transitioning to organic farming. USDA-NIFA ORG, \$736,493.
48. G.P. Dively and **C.R.R. Hooks**, 2011-2014. Biology, distribution and management of the brown marmorated stink bug in soybean production. United Soybean Board, \$272,669.
49. Hawthorne, D. J. and **C.R.R. Hooks**, 2012-2013. Using marigold as a flowering plant to attract natural enemies of the brown marmorated stink bug in soybean fields. Maryland Soybean Board, \$11,000.
50. **C.R.R. Hooks** and G.P. Dively (UMD subcontract institution), 2012-2015. Whole farm organic management of BMSB and endemic pentatomids through behavior-based habitat manipulation. USDA-NIFA OREI, \$201,387 (UMD portion).

Post-tenure

Post-tenure summary of funding (indirect + direct costs) as principal and Co-principal investigator (2013-present)

Project role	Competitive	Industry
Principal Investigator	2,542,341	26,000

Co-Principal Investigator	2,158,261	99,810
Total (post-tenure)	4,700,602	125,810

51. **Leikveishvili, M., G.P. Dively and **C.R.R. Hooks**, 2013-2014. Assessment of grain yield and potential non-target effects of corn seed treatments containing high doses of multiple pesticides, Maryland Grain Producers Utilization Board, \$26,610.
52. *Lebron-Rosario, A. and **C.R.R. Hooks**, 2013-2014. Using molecular methods to identify parasitoids and assess parasitism of the brown marmorated stink bug: deciphering the cause of unknown mortality, Maryland Soybean Board, \$15,000.
53. **C.R.R. Hooks**, Chen, G. and Rosario-Lebron, A. 2013-2014. Barley Residue and Herbicide Management Practices: Effects on Insects, Weeds, Soil Moisture Content and Soybean Yield. Maryland Soybean Board, \$26,000.
54. *Lebron-Rosario, A. and **C.R.R. Hooks**, 2013-2014. Using marigold as a flowering plant to attract natural enemies of the brown marmorated stink bug in soybean fields. Maryland Soybean Board, \$5,000.
55. **C.R.R. Hooks**, Chen, G. and Buchanan, A. 2013-2014. Developing economic and ecological sustainable pest management practices for growers of leguminous and solanaceous crops. USDA-NIFA Northeastern IPM Competitive Grants Program, \$83,058.
56. **C.R.R. Hooks**, et al. 2013-2014. Moving IPM in Maryland to Greater Economic and Ecological Sustainability. USDA-NIFA EIPM CS Competitive Grants Program, \$135,000.
57. Lamp, W., Q. Wang, **C.R.R. Hooks** and G. Dively. 2014-2017. Risk assessment for plant incorporated insecticidal products on non-target aquatic organisms and communities. USDA NIFA BRAG Grants Program, \$499,996.
58. **C.R.R. Hooks** et al. (UMD subcontract institution, 16 total), 2014-2016. Biology, Ecology, and Management of Brown Marmorated Stink Bug in Orchard Crops, Small Fruit, Grapes, Vegetables, and Ornamentals (*Renewal*). USDA NIFA SCRI, \$725,145 (UMD portion).
59. **C.R.R. Hooks**, Chen, G and Buchanan, A. 2014-2016. Using habitat manipulation to help farmers manage multiple pest complexes in eggplant, snap bean and other vegetable crops. USDA NIFA ARDP (Applied Research and Development Program Area), \$150,000.
60. **C.R.R. Hooks**, et al. (9 total) 2014-2017. Serving the needs of Maryland Stakeholders through IPM extension. USDA-NIFA CPPM (Crop Protection and Pest Management), \$630,000.
61. **Venugopal, D., K. Hamby and **C.R.R. Hooks**. 2015. Multitasking marigold to strengthen organic IPM in lima bean and other bean crops, USDA-NIFA Northeastern IPM Competitive Grants Program. \$25,000.
62. *Coffey, P. and **C.R.R. Hooks**. 2015. The effect of cover crops on the abundance and survival of beneficial stink bugs. USDA-NIFA Northeast Sustainable Agriculture Research and Education (NESARE). \$11,916.
63. **C.R.R. Hooks**, G. Chen, S.P. Dill and K.-H. Wang. 2016-2018. Using strip-tillage to help organic producers build an ecologically based weed management program. USDA AFRI CARE \$200,000.
64. Shrewsbury, P. and **C.R.R. Hooks** (UMD subcontract institution) 2016-2021. An areawide biointensive management plan for brown marmorated stink bug (BMSB), *Halyomorpha halys* (Stål), to reduce impacts throughout the agro-urban interface. USDA Research, Education, and Economics Agricultural Research Service. \$230,040 (UMD portion)

65. Shrewsbury, P. and **C.R.R. Hooks** (UMD subcontract institution) 2016-2021. Management of brown marmorated stink bug in us specialty crops. USDA NIFA SCRI \$471,300 (**active**)
66. **Leslie, A.W., K.A. Hamby, E. Zobel, V.L. Johnson, **C.R.R. Hooks**. 2017-2019. Developing a management program for the Dectes stem borer (*Dectes texanus*) by finding and targeting its weak link. Maryland Soybean Board. \$52,300.
67. Hamby, K., **C.R.R. Hooks** et al. 2017-2020. IPM solutions for Maryland, an agriculturally and demographically diverse state. USDA NIFA CPPM/EIP. \$843,000 (**active**)
68. **Leslie, A.W. and **C.R.R. Hooks**. 2018-2019. Developing no-till living mulch strategies for weed and insect pest control in *Phaseolus* beans. Maryland Specialty Crop Block Grant. \$20,000.
69. **Hooks, C.R.R.** (UMD subcontract institution) 2018-2021. Implementation of integrated insect pest management and food safety practices for cucurbit production in the U.S. Delmarva Peninsula. USDA NIFA 1890 Capacity Building Grant (CBG) \$75,000 (UMD portion; **active**)
70. **Hooks, C.R.R.** and K.A. Hamby. 2018-2021. An undergraduate integrated pest management (IPM) training program for the South and Northeast regions. USDA NIFA ELI REEU \$278,912 (**active**)
71. Leslie, A.W., E. Afful, K.A. Hamby, E. Zobel and **C.R.R. Hooks**. 2019-2020. Improving detection of the Dectes stem borer for developing spray. Maryland Soybean Board. \$16,895 (**active**)
72. *Yurchak, V. and **C.R.R. Hooks**. 2019-2020. Effects of living mulch and cover crop residues on natural enemy abundance and efficacy in sweet corn. USDA-NIFA Northeast Sustainable Agriculture Research and Education (NESARE) \$14,009 (**active**)
73. **Hooks, C.R.R.** and A.W. Leslie (UMD subcontract institution) 2020-2023. Using rhizobacteria and cover crops to develop and implement insect and weed management programs in sweet corn fields. USDA NIFA 1890 Capacity Building Grant (CBG) \$80,000 (UMD portion; **active**)
74. **Hooks, C.R.R.**, A.W. Leslie and S. Dill 2020-2023. Creating an ecofriendly pest suppression program in sweet corn. Northeast SARE Research and Education. \$100,371 (**active**)

II.H. Funded Research not administered by UMD research office (ORA)

Pre-tenure

1. **C.R.R. Hooks** and G. E. Brust, 2008-2009. Using a special cover crop to support the production needs of Maryland's sustainable agriculture and organic vegetable industry. Maryland Agriculture Experiment Station Competitive Grants Program \$25,000.
2. **C.R.R. Hooks**, 2009-2010. Combining cover crops with biopesticides in vegetable plantings. Maryland Vegetable Grower Association, \$500.00.
3. **C.R.R. Hooks**, 2009-2013. Behavioral responses of nematodes and their associated natural enemies to various environmental stimuli. USDA BARC Cooperative Agreement, \$92,825

Post Tenure

4. **Chen, G., **C.R.R. Hooks** and A. Buchanan. 2013-2014. Evaluation of cover crop mixtures on soil fertility and quality, insect pest management, crop yield and profitability

for corn production. Integrated Agriculture and Natural Resources Extension and Research Competitive Grants Program, \$32,000.

5. **C.R.R. Hooks** and Chen, G., 2013-2014. Designing a more sustainable weed and insect pest management system for vegetable producers. Maryland Agriculture Experiment Station Competitive Grants Program, \$30,000.
6. **Chen, G. and **C.R.R. Hooks**, 2013-2014. Effects of surface mulch and tillage systems on sweet corn germination, growth and yield. Maryland Vegetable Growers Association, \$900.
7. **C.R.R. Hooks**, Chen, G., Kuhar, T. and S. Tubene. 2014. Using an integrated management approach to mitigate multiple pest constraints and improve profits in snap beans. Delmarva Land Grant Institution Collaborative Research Seed Funding Program, \$30,000.
8. **Chen, G., H. Kahl and C.R.R. Hooks. 2016-2018. Using red clover as a living ground cover to reduce greenhouse gas emissions and enhance pollinator's services. University of Maryland Sustainability Grant. \$11,000.

III.I. Research Fellowships, Prizes and Awards

Pre-tenure

1. 2005. The *Ka Pouhana* (Mentor) Award, selected by undergraduate and graduate students in the College of Tropical Agriculture Human Resource, University of Hawaii at Manoa, recognizes an outstanding mentor who has done an excellent job of guiding them. There is only one recipient of this award per year.

Post-tenure

2. 2015. Eastern Branch Entomological Society of America Distinguished Achievement Award in Extension
3. 2015 International Integrated Pest Management Team Award in recognition of StopBMSB Program
4. 2017 Educational Institution and Federal Laboratory Partnership Team Award for SCRI coordinated Agriculture Project the BMSB
5. 2018 University of Maryland Department of Entomology Gahan Professorship in Entomology of Award for contribution to department and field of Entomology

III. Teaching, Mentoring and Advising (courses taught last 7 years)

III.A. Courses Taught

* indicates Co-instructor

1. Spring 2013 Biology of Insect (BSCI337) 34 students - included lectures, labs and scientific symposiums in which small groups of students collaborated on scientific power point presentations related to a class topic.
2. Spring 2013 Department Research (BSCI389) 1 student
3. Fall 2014 Master of Chemical and Life Sciences Seminar (CLFS608) 1 student
4. Spring 2014 Insect Pest Management (ETM798D) 9 students
5. Spring 2014 Colloquium (ENTM788C) 14 students
6. Spring 2014 Department Research (BSCI389) 1 student
7. Spring 2015 Master of Chemical and Life Sciences Seminar (CLFS608) 1 student
8. Spring 2017 Department Research (BSCI389) 3 students

9. Spring 2017 Honors Research (BSCI389H) 1 student
10. Winter 2018 Capstone: Scholar Paper (ENTM769) 1 student
11. Fall 2018 Concepts in Organic Pest Management (ENTM699R) 5 students
12. Fall 2017 Entomology Department Research (BSCI389) 1 student
13. Fall 2018 Concepts in Organic Pest Management (ENTM 699R) 5 students
14. *Winter 2019 Capstone Scholar Paper (ENTM 769) 1 student
15. *Spring 2019 Insect (BSCI 120) 20 students
16. Spring 2019 Entomology Department Research (BSCI 389) 1 student
17. Fall 2019 Insect (BSCI 120) 12 students
18. Fall 2019 ENTM Department Research (BSCI 389) 1 student
19. Winter 2020 Capstone Scholar Paper (ENTM 769) 1 student
20. Spring 2020 Insect (BSCI 120) students 26 students

III.A.1. Other Teaching Activities (Guest Lecture)

1. Spring 2013 Guest lecturer, *Class Title*: Ecology of Agricultural Systems (AGNR????): Ecological Pest Management: managing crop pests by targeting their weak links.
2. Fall 2016 Guest lecturer, *Class Title*: Issues in Sustainable Agriculture (ENST441): Ecological Pest Management: managing crop pests by targeting their weak links 32 students
3. Spring 2017 Guest lecturer, *Class Title*: Biology of Insects (BSCI337): Ecological Pest Management.
4. Fall 2016 Guest lecturer, *Class Title*: Issues in Sustainable Agriculture (ENST441): Spiders as biological control agents 32 students
5. Fall 2018 Invited guest, *Class Title*: Weed Science (PLSC453): A glimpse of weed research opportunities for undergraduates in the Hooks' Lab 20 students
6. Fall 2019 Guest Lecturer, *Class Title*: Weed Science (PLSC453): Integrated weed management 14 students
7. Fall 2019 Guest Lecturer, *Class Title*: Weed Science (PLSC453): Making cover crops part of an integrated weed management program 14 students
8. Spring 2020 Guest Speaker, Catalyst Seminar (BSCI 279C/BSCI 279H) 40 students
9. Spring 2020 Guest Lecturer, Integrated Pest Management (UMES, PLSC 321) Using ecological pest management as a tool of IPM 12 participants

III.B. Advising: Research

Note: * - Indicates graduate student was recipient of National Science Foundation Fellowship

III.B.1. Undergraduate

Student's name	Date	Program
Nayo Shell	2014-2015	Louis Stokes Alliance for Minority Participation
Daniel Smith	2014-2015	Louis Stokes Alliance for Minority Participation
Matthew Bisk	2014	SESYNC Intern

Jonathan Coplin	2015	SESYNC Intern
Tonle Bloomer	2016	SESYNC Intern
Belton DeLaine-Facey	2016	SESYNC Intern
John Cantilli	2017	Independent Research
Anthony Combs	2017	Independent Research
Matthew Dimock	2019-	Undergraduate Fellow
Rachel Lubitz	2019	Independent Research

SESYNC denotes National Socio-Environmental Synthesis Center

III.B.2.1. Master's (online thesis)

▪ **Completed**

Student's name	Institution	Date	Role
Joshua Abraham	UMD (Chem & Life Sci)	2017	Advisor
Caroline Selle	UMD (Entomology)	2018	Advisor
Ray Paleg	UMD (Entomology)	2020	Advisor

III.B.2.2. Master's

▪ **Current**

Student's name	Institution	Date	Role
Dylan Kutz	UMD	2017-	Committee member
Elizabeth Dabek	UMD	2018-	Advisor
Demian Nunez	UMD	2019-	Advisor

▪ **Completed**

Student's name	Institution	Date	Role	Current position
Roshan Manandhar	U. of HI	2008	Advisor	Maui Extension Agent
Cynthia King	U. of HI	2008	Com. Mbr.	State Entomologist
Jermaine Hinds	UMD	2012	Advisor	PhD Penn State/Technical review Specialist NESARE agency
Ashley Jones	UMD	2013	Co-Advisor	Arborist Montgomery Co. Dept. of Transportation

Emily Zobel	UMD	2014	Advisor	UMD Extension Agent
Bill Cissel	U. of Del.	2014	Com. Mbr.	UDeI Extension Agent
Lauren Hunt	UMD	2016	Advisor	PhD student Boise State University
*A. Rosario-Lebron	UMD	2017	Advisor	Agri. Entomologist USDA APHIS
Jessica Grant	UMD	2017	Com. Mbr.	_____
*Hanna Kahl	UMD	2017	Advisor	PhD Student UC Davis
Peter Coffey	UMD	2018	Advisor	UMD Extension Agent
Veronica Johnson	UMD	2018	Advisor	PhD Student UMD

III.B.3. Doctoral

▪ **Current**

Student's name	Institution	Date	Role
Lisa Kuder	UMD	2015-	Com. member
Veronica Johnson	UMD	2018-	Com. member
Darsy Smith	UMD	2018-	Com. member

▪ **Completed**

Student's name	Institution	Date	Role
Roshan Manandhar	U. of Hawaii	2013	Com. member
Alan Leslie	UMD	2014	Com. member
Jennifer Himmelstein	UMD	2013	Com. member
Samuel Ramsey	UMD	2018	Com. member
Yong Lu	UMD	2015	Com. member
Kelly Kulhanek	UMD	2013	Com. member
Rebecca Wilson	UMD	2018	Com. member

III.B.4. Post-doctoral

Name	Specialty	Period	Current Position
Eden Perez	Virologist	2006-2008	Senior Researcher for Cell Biology, Seed Co.
Koon-Hui Wang	Nematologist	2006-2008	Chair PEPS Dept UH at Manoa

Naresh Pradhan	Ag-Economist	04.2010-11.2010	Economist - Ocean Associate Inc
Mariam Lekveishvili	Acarologist	2010-2013	Senior Science Coordinator at TMC Global Professional Services
Lauren Kolb	Weed Ecologist	2011-2012	Agri. Natural Resource Specialist City of Boulder Open Space and Mountain Parks
Guihua Chen	Soil Scientist	2012-2016	Senior Environ. Scientist, California Dept. of Food and Agriculture
Amanda Buchanan	Ecologist	2013-2015	Development Scientist/Entomology ALK-Abello Source Materials
Alan Leslie	Entomologist	2015-2019	UMD Extension Agent
Dwayne Johnson	Weed Scientist	Mar 2020-	—

III.C. Mentorship

III.C.1. Junior Faculty

Name and title	Position	Institution-Dept	Specialty	Year
Dr. Cassandra Swift	Assist. Prof.	UMD Dept. of PSLA	Plant Pathology	2015 - 2016
Dr. Kelly Hamby	Assist. Prof.	UMD Dept. of ENTO	Entomology	2017 - 2019

III.C.2. Other (K-12 Education)

High school teacher

Name	Specialty	Period
Yolanda King-Davis	Science teacher	Summer 2012
Chinna Mapp	Science teacher	Summer 2013
Katherine Brewer	Science teacher	Summer 2013

High school student

Name	Period	
Sharma Patel	Summer 2011&12	Sci., Math & Computer Sci. Magnet Prog.
Prateek Mechineni	Summer 2012	Sci., Math & Computer Sci. Magnet Prog.
Alison Ramson	2018-2019	Sci., Math & Computer Sci. Magnet Prog.

III.D. Professional and Extension Education

III.D.1. Major program established

Extension Education

Pre-tenure extension presentation and publication summary (2008 - 2012)

Task	Number	1 st /Sr Author	Attendees
Commodity presentation	61	58	4,561
Workshop instruction	6	n/a	161
Crop school instruction	3	3	153
Field day presentation	11	11	796
Extension publication ¹	26	19	n/a
Total (post-tenure)	107	91	5,671

¹Two popular UMD extension publications that our lab contributes to are Vegetable and Fruit Headline News and Agronomy News which are read by ~2,500 and 3,000 stakeholders, respectively, monthly. Readers include farmers and other ag-professionals and several state and local agencies (i.e., local and state legislators, USDA, Soil Conservation Districts, MD Dept. of Ag.), as well as persons from neighboring institutions and states (DE, PA & VA).

III.D.2. Invited Talks - extension conferences

Extension Presentations [(+) - denotes undergraduate student in my program gave the presentation; (*) – denotes graduate student in my program gave the presentation; () - indicates that Post-Doctoral Associate or Research Associate in my program gave the presentation]**

Pre-tenure

1. **Hooks, C.R.R.** and M. W. Johnson. 1997. The potential use of living mulches for insect pest management. University of Hawaii at Manoa, May 1997 CTAHR Forum Cover Crop Symposium, Hilo, Hawaii.
2. **Hooks, C.R.R.** 2003. *Conference title:* Sustainable Pest Control in the Tropics. *Talk title:* Living mulches: valuable allies in the war against insect pests. January, Hilo, Hawaii.
3. **Hooks, C.R.R.** 2003. Sustainable Pest Management Conference. Sustainable Agriculture Video Tele Conference to American Samoa, Pohnpei, and Saipan.
4. **Hooks, C.R.R.**, M.G. Wright, D.S. Kabasawa, R. Manandhar[#], and R.P.P. Almeida 2006. The influence of *Banana bunchy top virus* infection on the morphology and growth of banana. Hawaii Banana Industry Association Conference.

5. **Hooks, C.R.R.** 2008. Southern Maryland Crops Dinner Conference. Izaak Walton League. Waldorf, Maryland. Fields Crop IPM - Early Insect Scouting December 04, 2008. Attendance 114
6. **Hooks, C.R.R.** 2008. AGNR University of Maryland Extension Inservice-meeting. Beltsville, MD Agronomy update, December 09, 2008. Attendance 30
7. **Hooks, C.R.R.** 2008. Baltimore County Field Crops Day, Upperco, MD. The importance of scouting in pest management, December 11, 2008. Attendance 152
8. **Hooks, C.R.R.** 2009. Central Maryland Vegetable Growers meeting, Friendly Farm Restaurant, Upperco, MD. Cover crops: valuable allies in the war against agricultural pests. Attendance 103
9. **Hooks, C.R.R.** Frederick 2009. Maryland Agricultural Pesticide Conference. Frederick, MD. Reverting CRP lands back into production: insect management consideration. Feb. 03, 2009. Attendance 94
10. **Hooks, C.R.R.**, 2009. Maryland/Delaware Commercial Pesticide Conference. Denton, MD Reverting CRP lands back into production: insect management consideration. Feb. 05, 2009. Attendance 127
11. **Hooks, C.R.R.** 2009. Southern Maryland Vegetable & Fruit Conf., A-Maze-N-Place, Clements, MD. Cover crops: valuable allies in the war against agricultural pests. Feb. 11, 2009. Attendance 85
12. **Hooks, C.R.R.** 2009. USDA Pesticide Recertification Conference. Beltsville, MD. Ecological pest management: making changes in cultural practices to help control pests. February 25, 2009. Attendance 85
13. **Hooks, C.R.R.** 2009. Maryland Cattle Industry Convention & Hay and Pasture Conference. Hagerstown, MD. An overview of insects associated with forage crops. Hagerstown Hotel and Convention Center. March 06, 2009. Attendance 40
14. **Hooks, C.R.R.** 2009. Baltimore County Field Crops Day, Soybeans - What pests are important? Upperco, Maryland. December 10, 2009. Attendance 150
15. **Hooks, C.R.R.** 2010 Carroll County Growers' Winter Meeting and Workshop, Carroll County Extension Office, Westminster, MD. Open forum field crops meeting, February 04, 2010. Attendance 90
16. **Hooks, C.R.R.** 2010. 19th Annual Maryland Organic Food and Farming Association (MOFFA) Winter Meeting. Use of cover crops to manage flea beetles and Colorado potato beetle in eggplant, February 20, 2010. Annapolis, Maryland. Attendance 30
17. Wang, K.-H. and **C.R.R. Hooks**. 2010. Is your cover cropping practice benefiting? A soil ecologist's point of view. 20 February 2010. 19th Annual MOFFA (Maryland Organic Farmers Association) Winter Meeting, Annapolis, MD.
18. **Hooks, C.R.R.** 2010. Dorchester County Agronomy Meeting. An infamous soybean pest strikes again: Background info on Mexican-bean beetle. February 23, 2010. Cambridge, Maryland. Attendance 60
19. **Hooks, C.R.R.** 2010. Hartford County Mid-Winter Educational Meeting. Ecological pest management. February 25, 2010. Street, Maryland. Attendance 59
20. Wang, K.-H. and **C.R.R. Hooks**. 2010. Does reduced pesticide use benefit soil health: A nematologist's point of view. 25 February 2010. Harford County Mid-Winter Educational Meeting, Deer Creek Overlook, 4-H Building, Street, MD. Attendance 59
21. Wang, K.-H. and **C.R.R. Hooks**. 2010. Use of nematodes and soil microarthropods as soil health bioindicators: a visit of Hawaii ecological based pest management projects.

- 26 February, 2010. Entomology Colloquium, Department of Entomology, University of Maryland, College Park, MD. Attendance 30
22. **Hooks, C.R.R.** 2010. Eastern Shore Vegetable Meeting and Good Agricultural Practices (GAP) Training. Integrating cover crops into a Colorado potato beetle pest management plan. March 16, 2010. Cambridge, Maryland. Attendance 45
 23. **Hooks, C.R.R.** 2010. Southern Maryland Vegetable and Fruit Meeting. Eggplant insect control with winter cover crops and organic insecticides. April 15, 2010. Edgewater, Maryland. Attendance 56
 24. **Hooks, C.R.R.** 2010. *Conference title:* Profiting from a Few Acres: A Risk Management Conference, *Talk title:* Beating the bugs in your vegetables with IPM. Delaware State University Cooperative Extension Program, Dover, DE. November 10-11. Attendance 50
 25. **Hooks, C.R.R.** 2010. University of Maryland Department of Entomology Colloquium. Part I. Can we improve the success of conservation biological control through a more balanced disruption of pest ecological requisites? Part II. R²'s teaching philosophy: an accomplished scientist is not by definition a good teacher. November 12, 2010. College Park, Maryland. Attendance 50
 26. **Hooks, C.R.R.** 2010. Southern Maryland Crops Dinner Conference. Izaak Walton League. Brown marmorated stink bug: biology, management, emerging research & technology. Waldorf, Maryland. December 01, 2010. Attendance 122
 27. **Hooks, C.R.R.** 2010. Baltimore County Field Crops Day, Soybeans - What pests are important? Upperco, Maryland. December 09, 2010. Attendance 160
 28. **Lekveisvili, M. and **C.R.R. Hooks.** 2011. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Soil Health Indicators: what soil mites and other organisms can tell us about soil health - Annapolis, Maryland, February 19, 2011. Attendance 25
 29. **Hooks, C.R.R.** 2011. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Organic research update: management of the Colorado potato beetle through modification of the eggplant environment. Annapolis, Maryland, February 19, 2011. Attendance 25
 30. **Hooks, C.R.R.** 2011. Montgomery/Howard County Agronomy Update, Stink bug and other pests. Deerwood, Maryland. February 23, 2011. Attendance 75
 31. **Hooks, C.R.R.** 2011. Cecil County Agronomy Day, Brown marmorated stink bug and other insects. Rising Sun, Maryland. March 01, 2011. Attendance 82
 32. **Hooks, C.R.R.** 2011. Queen Anne's County Agronomy Day. Brown marmorated stink bug and other insects. Centreville, Maryland. March 04, 2011. Attendance 150
 33. **Hooks, C.R.R.** 2011. 6th Annual Organic Grain, Forage, and Vegetable Production Meeting. Nutrient cycling organism and crop productivity in no-till corn. March 08, 2011 Chesapeake College, Wye Mills, MD. Attendance 25
 34. **Hooks, C.R.R.** 2011. Southern Maryland Crops Dinner Conference, Crop Pests and Associated Research Updates in Corn and Soybean, Brandywine, MD, November 30, 2011. Attendance 85
 35. **Kolb, L. and **C.R.R. Hooks.** 2011. Baltimore County Field Crops Day, Upperco, MD. Crop Pests and Associated Research Updates in Corn and Soybean, December 06, 2011. Attendance 120

36. **Hooks, C.R.R.** 2011. *Conference title:* Profiting from a few acres: A Risk Management Conference, *Talk title:* Integrating cover crops into an integrated pest management plan. Delaware State University Cooperative Extension Program, Dover, DE. December 12-13. Attendance 55
37. *Hinds, J., A. Rosario-Lebron, **C.R.R. Hooks.** 2011. Cecil County Agronomy Day. Rising Sun, Maryland, Crop Pests and Research Updates in Corn and Soybeans January 24, 2011. Attendance 76
38. **Hooks, C.R.R.** 2011. Dorchester Agronomy, Cambridge, Maryland. Research updates on the Brown Marmorated Stink Bug and other Agronomic Crop Pests, January 31, 2011 Attendance 56
39. **Hooks, C.R.R.** 2012 Central Maryland Vegetable Growers meeting, Friendly Farm Restaurant, Upperco, MD. January 27, 2012. Integrating Cover Crops into an Integrated Pest Management Plan: with comments on Biocontrol of the BMSB. Attendance 105
40. **Hooks, C.R.R.** 2012. Maryland Agricultural Pesticide Conference. Stink bug and *Bt* corn pest update. Frederick, MD. February 07, 2012. Attendance 97
41. **Hooks, C.R.R.** 2012. Southern Maryland Vegetable and Fruit Meeting. Farmland practices and soil organisms: contributors to soil health, Gambrills, MD, February 08, 2012. Attendance 50
42. **Hooks, C.R.R.** 2012. Southern Maryland Vegetable and Fruit Meeting. Natural Enemies of the Brown Marmorated Stink bug: a preliminary assessment of their impact, Gambrills, MD, February 08, 2012. Attendance 50
43. **Hooks, C.R.R.** 2012. Caroline County Agronomy Day, *Bt* Corn, insecticide and Stink Bug Pests Updates Denton, MD, February 15, 2012. Attendance 111
44. **Hooks, C.R.R.** 2012. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Natural Enemies of the Brown Marmorated Stink bug: a preliminary assessment of their impact with side notes on other prospective management options. Annapolis, Maryland, February 18, 2012. Attendance 35
45. **Hooks, C.R.R.** 2012. 36th Annual Eastern Shore Vegetable Meeting. Natural Enemies of the Brown Marmorated Stink bug: a preliminary assessment of their impact with side notes on other prospective management options. Cambridge, Maryland, February 21, 2012. Attendance 35
46. **Hooks, C.R.R.** 2012. Research updates and findings on pests in wheat, corn, and soybeans. Carroll County Mid-Winter Meeting Westminster, Maryland February, 22, 2012. Attendance 85
47. **Hooks, C.R.R.** 2012. Research update and findings on pests in agronomic crops with emphasis on wheat, corn, and soybean. Central Maryland Agronomy Update: Frederick, Howard, and Montgomery Counties Urbana, Maryland, February 29, 2012. Attendance 105
48. **Hooks, C.R.R.** 2012. Research update and findings on pests in agronomic crops with emphasis on wheat, corn, and soybean. Queen Anne's County Agronomy Day, Centreville MD, March 02, 2012. Attendance 105
49. **Hooks, C.R.R.** 2012. Organic Grain, Forage, and Vegetable Workshop. Organic crop production and the brown marmorated stink bug. Chesapeake College, Wye Mills, MD, March 06, 2012. Attendance 25

50. **Hooks, C.R.R.** 2012. Baltimore County Field Crops Day, Upperco, MD. Impact of natural enemies, spider mites and GMOs on pest and/or yield in field crops, December 06, 2012. Attendance 145
51. **Hooks, C.R.R.** 2013. Dorchester Agronomy, Cambridge, Maryland. Research updates and profiles of some pests and their management in field crops, January 15, 2013. Attendance 55
52. [†]Larmore, T., J. Hinds, A. Rosario-Lebron, **C.R.R. Hooks**. 2013. Cecil County Agronomy Day. Rising Sun, Maryland, Impact of cover crops, pesticides and GMOs on pests and yields in field crops. January 24, 2013. Attendance 90
53. **Hooks, C.R.R.** 2013. Central Maryland Vegetable Growers meeting, Friendly Farm Restaurant, Upperco, MD. January 25, 2013. Can row interplanting be used to manage insect pests in cucurbits? Attendance 103
54. ****Chen, Guihua, C.R.R. Hooks, and L. Kolb.** 2013. Central Maryland Vegetable Growers meeting, Friendly Farm Restaurant, Upperco, MD. January 25, 2013. Effects of Tillage Systems on Soil Nitrogen and Weed Dynamics, Growth and Yield of Organic Eggplants. Attendance 50
55. **Hooks, C.R.R., A. Rosario-Lebron, J. Hinds, L. Kolb, M. Lekveishvili and K.-H. Wang.** 2013. Symposium title: Organic Vegetables. Talk title: Using winter cover crops to enhance the organic vegetable industry. Mid-Atlantic Fruit and Vegetable Convention, Hershey Lodge and Convention Center, Hershey, PA. January 29-31, 2013. Attendance 75.
56. ****Chen, Guihua, C.R.R. Hooks and L. Kolb,** 2013. Southern Maryland Vegetable and Fruit Meeting. A-Maze-N-Place Clements, MD. February 06, 2013. The Effect of Tillage and Plastic Mulch on Vegetable Production. Attendance 60
57. **Hooks, C.R.R., M. Douglas, J. Tooker, J. Whalen and B. Cissel.** 2013. Maryland Agricultural Pesticide Conference. Slimy thugs research update. Frederick, MD. February 12, 2013. Attendance 125
58. **Hooks, C.R.R.** 2013. Maryland Agricultural Pesticide Conference. Stink bugs, spider mites and Bt corn updates. Frederick, MD. February 12, 2013. Attendance 125
59. **Hooks, C.R.R., J. Hinds, K.-H. Wang, A. Rosario-Lebron, M. Lekveishvili and L. Kolb.** 2013. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Making summer and winter cover crops a part of organic vegetable production. Annapolis, Maryland, February 16, 2013. Attendance 25
60. ****Chen, G., C.R.R. Hooks and L. Kolb.** 2013. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Effects of tillage systems on soil nitrogen and weed dynamics, growth and yield of organic eggplants. Annapolis, Maryland, February 16, 2013. Attendance 25
61. ****Chen, G., C.R.R. Hooks and L. Kolb.** 2013. 37th Annual Eastern Shore Vegetable Meeting. How do tillage practices influence vegetable productions? Cambridge, Maryland, February 19, 2013. Attendance 30
62. **Hooks, C.R.R.** 2013. Caroline County Agronomy Day, Research updates and profiles of some pests and their management in field crops, Denton, MD, February 21, 2013. Attendance 105
63. [†]Larmore, T and **Hooks, C.R.R.** 2013. Frederick/Montgomery/Howard Winter Meeting. Spider mites, Bt corn and cover crops: impact on pests and yields of field crops. Frederick MD, February 27, 2013. Attendance 110.

64. **Hooks, C.R.R.**, J. Hinds, K.-H. Wang, A. Rosario-Lebron, M. Lekveishvili and L. Kolb. 2013. 8th Annual Organic Grain and Vegetable Production Meeting. Developing a Living Mulch System for Double-Cropped Vegetables. Chesapeake College, Wye Mills, Maryland, March 12, 2013. Attendance 20
65. ****Chen, G., L. Kolb and C.R.R. Hooks.** 2013. 8th Annual Organic Grain & Vegetable Production Meeting. Effects of Tillage System on Soil Nitrogen, Weed Dynamics and Growth of Organic Eggplants. Chesapeake College, Wye Mills, Maryland, March 12, 2013. Attendance 20

Post-tenure

Post-tenure extension presentation and publication summary (2013 - present)

Task	Number	1st/Sr Author	Attendees
Commodity presentation	71	71	3,954
Workshop instruction	10	10	290
Crop school instruction	5	5	388
Field day presentation	63	61	3,911
Panel discussion	3	n/a	87
Extension publication ¹	42	41	n/a
Total (post-tenure)	194	188	8,630

¹Two popular UMD extension publications that our lab contributes to are Vegetable and Fruit Headline News and Agronomy News which are read by ~2,500 and 3,000 stakeholders, respectively, monthly. Readers include farmers and other ag-professionals and several state and local agencies (i.e., local and state legislators, USDA, Soil Conservation Districts, MD Dept. of Ag.), as well as persons from neighboring institutions and states (DE, PA & VA).

66. **Hooks, C.R.R.**, P. Dilip Venugopal and G. Dively. 2013. Fifteenth Annual Maryland Commodity Classic. Update on BMSB activity and control in grain crops and soybeans. Centreville MD, July 25, 2013. Attendance 40
67. **Hooks, C.R.R.**, M. Douglas, J. Tooker, J. Whalen and B. Cissel. 2013. Pest Happens: sustainable slug, insect and weed pest management updates in field crops: Sustainable slug research updates Southern Maryland Crops Dinner Conference, Brandywine, MD, December 03, 2013. Attendance 100
68. **Hooks, C.R.R.**, G. Chen and A. Rosario-Lebreon. 2013. Pest Happens: sustainable slug, insect and weed pest management updates in field crops. Can cover crop species as well as timing and method of suppression impact other pests and yields? Brandywine, MD, December 03, 2013. Attendance 100
69. **Hooks, C.R.R.**, G. Chen and A. Rosario-Lebron. 2013. Northern Maryland Field Crops Day. Can species, timing and method of cover crop suppression impact weeds and yield in soybean? Upperco, MD. December 05, 2013. Attendance 140

70. **Chen, G. and **C.R.R. Hooks**. 2014. Central Maryland Vegetable Meeting. Seed Germination, Plant Growth, and Ear Quantity and Quality of Sweet Corn as Affected by Tillage Practice. Upperco, MD. January 24, 2014. Attendance 60
71. **Hooks, C.R.R.**, G. Chen⁺, A. Rosario-Lebron[#] and L.G. Hunt. 2014. Dorchester Agronomy Meeting. Using Cultural, Chemical and Biological Control Tactics for Managing Insects and Weeds in Corn and Soybeans. Cambridge, MD January 23, 2014. Attendance 70
72. *Embrey, M., A. Rosario-Lebron and L. G. Hunt and **C.R.R. Hooks**. 2014. Lower Shore Agronomy Day. Can timing of cover crop suppression impact insects, nematodes, weeds and yields in soybean. Salisbury, MD January 29, 2014. Attendance 35
73. **Chen, G. and **C.R.R. Hooks**. 2013. Symposium title: Organic Vegetables. Talk title: Effects of Tillage Systems on Soil Nitrogen, Weed Dynamics, Greenhouse Gas Emission and Yield in Organic Vegetable Systems. Mid-Atlantic Fruit and Vegetable Convention, Hershey Lodge and Convention Center, Hershey, PA. January 29-31, 2014. Attendance. 45
74. **Hooks C.R.R.**, M. Lekveishvili, P. Coffey & G. Dively. 2014. Part I: Impact of seed treatment on yield and non-target arthropods in corn and soybean. Harford County's Midwinter Education Meeting, Street, MD, February 04, 2014. Attendance 75
75. **Hooks C.R.R.**, G. Chen A. Rosario-Lebron and L. G. Hunt. 2014. Part II: Using cover crops as part of an IPM program for managing insects and weeds in soybean. Harford County's Midwinter Education Meeting, Street, MD, February 04, 2014. Attendance 75
76. **Buchanan, A., G. Chen and **C.R.R Hooks**. 2014. Winter Cover Crops Influence on Pest Suppression, Soil Quality and Yield. Southern Maryland Vegetable and Fruit Meeting. Gambrills, MD. February 05, 2014. Attendance 55
77. **Hooks C.R.R.**, M. Lekveishvili, P. Coffey & G. Dively. 2014. Seed treatment effects on non-target organisms. Maryland Agricultural Pesticide Conference, Denton MD February 06, 2014. Attendance 145
78. **Hooks C.R.R.**, G. Chen A. Rosario-Lebron and L. G. Hunt. 2014. Soybean research update. Maryland Agricultural Pesticide Conference, Denton MD February 06, 2014. Attendance 145
79. **Buchanan, A., G. Chen and **C.R.R Hooks**. 2014. Using cover crops for pest suppression in crookneck squash. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Annapolis, Maryland, February 15, 2014. Attendance 20
80. **Chen, G., A. Buchanan, R. Weil and **C.R.R. Hooks**. 2014. Integrating reduced or no tillage systems with cover cropping for organic vegetable productions. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Annapolis, Maryland, February 15, 2014. Attendance 20
81. **Buchanan, A., G. Chen and **C.R.R Hooks**. 2014. Sustainable pest control: using cover crops and tillage in vegetable crops. 38th Annual Eastern Shore Vegetable Meeting. Cambridge, Maryland, February 18, 2014. Attendance 35
82. **Hooks, C.R.R.**, G. Chen, A. Rosario-Lebron[#] and L.G. Hunt. 2014. Frederick/Montgomery/ Howard Winter Agronomy Meeting. Research update with special emphasis on ecologically based insect and weed management practices. Frederick, MD, February 21, 2014. Attendance 117

83. *Rosario-Lebron A. and **C.R.R., Hooks**. 2015. Timing and method of cover crop suppression on weeds and insects in soybean. Cecil County Agronomy Day. Rising Sun, Maryland January 21, 2015. Attendance 80
84. **Hooks, C.R.R.** and G. Chen. 2015. Evaluation of minimum till practices for managing weeds in vegetable. 2015 Central Maryland Vegetable Growers Meeting. Upperco, MD, January 30, 2015. Attendance 55.
85. **Hooks, C.R.R.** and G. Chen. 2015. Effects of two conservation tillage practices on weed management and vegetable yield. 2015 Southern Maryland Fruit and Vegetable Growers Conference. Clements, MD, February 04, 2015. Attendance 50.
86. **Hooks, C.R.R.,** M. Douglas, J. Tooker, M. Lekveishvili, and G. Dively. 2015. Seed treatment weaponry and its potential for causing collateral damage. Maryland/Delaware Commercial Pesticide Conference 2015. Frederick, MD February 10, 2015. Attendance 100.
87. **Hooks, C.R.R.** and G. Chen. 2015. Can reduced tillage and cover crop residue be used to manage weeds in organically grown vegetables? Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Annapolis, Maryland, February 21, 2015. Attendance 25
88. **Hooks, C.R.R.,** M. Douglas, J. Tooker, M. Lekveishvili and G. Dively. 2015. Part I: Seed treatment weaponry and its potential for causing collateral damage. Montgomery, Howard and Frederick County 2015 Agronomy Update, Frederick, MD February 25, 2015. Attendance 85
89. **Hooks C.R.R.,** G. Chen and A. Rosario-Lebron. 2015. Part II: Sustainable weed management research update. Montgomery, Howard and Frederick County 2015 Agronomy Update, Frederick, MD February 25, 2015. Attendance 85
90. **Hooks, C.R.R.** and G. Chen. 2015. Small Farm Conference. Princess Anne, MD. Workshop session 'Integrated Pest Management for Vegetable Growers'. Talk title: Using reduced tillage and cover crops as part of an IWM program for vegetables. November 06-07, 2015. Attendance 20
91. *Rosario-Lebron and **C.R.R. Hooks**. 2015. Can different cover crop suppression tactics impact weeds, insects and yields in soybean? Washington County Agronomy Meeting. Boonsboro, MD Attendance 31
92. **C.R.R. Hooks**. 2015. Using cover crops for pest suppression in organic and conventional systems. Private Applicators Re-Certification Conference. Purcellville and Remington VA. Attendance 55
93. *Rosario-Lebron, A., G. Chen and **C.R.R. Hooks**. 2016. Impact of chemical and mechanical cover crop termination practices on soybean arthropods. Harford County Mid-Winter Educational Meeting, Street, MD. February 10. Attendance 80
94. *Coffey, P. L., Rosario-Lebron, A., G. Chen and **C.R.R. Hooks**. 2016. Impact of chemical and mechanical cover crop termination practices on weeds and crop yield. Harford County Mid-Winter Educational Meeting, Street, MD. February 10. Attendance 80
95. **Chen, G. and **Hooks, C.R.R.** 2016. Cover crops and plant available nitrogen for vegetable crops. Southern Maryland Fruit and Vegetable Growers Conference. Gambrills, MD. Feb. 11. Attendance 45
96. *Johnson, V., G. Dively, W. Lamp and **C.R.R. Hooks**. 2016. GM crops: the persistence of insecticidal proteins in post-harvest corn litter. Maryland Organic Food and farming

- Association (MOFFA) Winter Meeting. Annapolis, Maryland, February 20, 2016. Attendance 30
97. *Kahl, H. and **C.R.R. Hooks**. 2016. Effects of living mulches on pollinators and other beneficial insects. Maryland Organic Food and farming Association (MOFFA) Winter Meeting. Annapolis, Maryland, February 20, 2016. Attendance 30
 98. **Hooks, C.R.R.** and G. Chen. 2016. Using conservation tillage to help manage weeds in vegetable crops. Eastern Shore Vegetable Meeting. Cambridge, MD February 23, 2016. Attendance 40
 99. **Chen, G. and **Hooks, C.R.R.** 2016. Maximizing plant available nitrogen contribution from winter cover crops. Eastern Shore Vegetable Meeting. Cambridge, MD February 23, 2016. Attendance 40
 100. **Hooks, C.R.R.** 2016. The use of plant diversification and cover crops for pest management. The University of Maryland Extension, Queen Anne's County Organic Production Meeting Chesapeake College Wye Mills, MD March 17th, 2016 Attendance 20
 101. **Leslie, A. and **C.R.R. Hooks**. 2017. Managing cover crops to suppress weeds in organic vegetables. Eastern Shore Vegetable Meeting. Cambridge, MD. Feb. 7, 2017. Attendance 50.
 102. *Kahl, H. and **C.R.R. Hooks**. 2017. The effects of living mulch on arthropod communities. Eastern Shore Vegetable Meeting. Cambridge, MD. Feb. 7, 2017. Attendance: 50.
 103. ****Leslie, A.**, H. Kahl, and C. R.R. Hooks. 2017. Suppressing Multiple Pests in Vegetables Using Cover Crops. Southern Maryland Fruit and Vegetable Meeting. Clements, MD. Feb 8, 2017. Attendance 60.
 104. **Hooks, C.R.R.** 2017. Trying to make conservation tillage part of an integrated weed management program in vegetables. University of Maryland Extension Agronomy and Horticulture In-service Meeting. Ocean City, MD June 15, 2017. Attendance 30
 105. **Hooks, C.R.R.** 2017. Spiders and Biological Control. Maryland/Delaware Commercial Pesticide Conference 2017. Frederick, MD February 07, Attendance 155. Denton, MD February 09, Attendance 155
 106. **Leslie, A. and **C.R.R. Hooks**. 2017. Managing cover crops to suppress weeds in organic vegetables. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Annapolis, MD. February 11. Attendance 35
 107. **Leslie, A. and **C.R.R. Hooks**. 2017. Integrated weed management: are there justification for using living mulches. The Winter Vegetable School. Leesburg, VA February 23, Attendance 35
 108. **Hooks, C.R.R.** 2017. The true-life story of a cover cropping journey in vegetables. University of Maryland Extension Agronomy and Horticulture In-service Meeting. Ocean City, MD June 21, 2017. Attendance 32
 109. **Hooks, C.R.R.**, G. Chen, and A. W. Leslie. 2018. Using cover crops for weed suppression in minimum till systems. Future Harvest Chesapeake Alliance for Sustainable Agriculture (CASA) Conference. College Park, MD January 13, Attendance 70
 110. **Leslie, A., K. Hamby, G. Dively and **C.R.R. Hooks**. 2018. Insect pests of soybeans. Lower Shore Agronomy Day. Princess Anne, MD January 25, Attendance 93

111. **Leslie, A. W. and **C.R.R. Hooks**. 2018. Managing weeds with cover crops in vegetables. Southern Maryland Vegetable and Fruit Meeting. Gambrills, MD. February 08, Attendance 45
112. **Leslie, A. W., **C.R.R. Hooks**. 2018. Using living mulch for weed suppression in organic vegetables. Eastern Shore Vegetable Meeting. Cambridge, MD. February 13, Attendance 32.
113. **Hooks, C.R.R.** 2018. Can spiders contribute to organic pest management. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Annapolis, MD. February 17. Attendance 25
114. **Hooks, C.R.R.** 2018. How to use cover crops to manipulate pests. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Annapolis, MD. February 17. Attendance 25
115. **Leslie, A. and **C.R.R. Hooks**. 2018. Controlling weeds in organic vegetables with living mulches. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Annapolis, MD. February 17. Attendance 23
116. **Leslie, A. W., K. A. Hamby, G. Dively, **C. R.R. Hooks**. 2018. Dectes stem borer and stink bugs. Caroline County Agronomy Meeting. Denton, MD. February 21. Attendance 105
117. **Hooks, C.R.R.**, G. Chen, and A. W. Leslie. 2018. Can living mulches be deployed into conservation tillage systems to support the fight against weeds? The University of Maryland Extension, Organic Production Meeting: Grain, Dairy, Vegetables and Poultry, Chesapeake College Wye Mills, MD March 09th, Attendance 20
118. **Hooks, C.R.R.**, A. W. Leslie and H. M Kahl. 2018. Chronicles of a perennial living mulch: A film about a zealous cover crop. University of Maryland Extension, Agronomy and Horticulture In-service Meeting. Ocean City, MD June 20. Attendance 31
119. **Leslie, A. W., **C.R.R. Hooks**, K.A. Hamby, E. Zobel. 2019. Research update on Dectes stem borer, a pest of soybeans. Carroll County Mid-Winter Meeting. Westminster, MD January 17, Attendance 110
120. *Yurchak, V., G. Chen, A.W. Leslie, and **C.R.R Hooks**. 2019. Weed Management in Organic Systems. Central Maryland Vegetable Growers Meeting. Upperco, MD January 24, Attendance 55
121. **Hooks, C.R.R.** 2019. Ecological pest management: insect management through modification of the cropping environment. Maryland agricultural pesticide conference. Frederick, MD February 05, 2019. Attendance 130
122. *Yurchak, V. and **Hooks, C.R.R.** 2019. Ecological pest management: insect management through modification of the cropping environment. Maryland agricultural pesticide conference. Denton, MD February 07, Attendance 145
123. **Hooks, C.R.R.**, G. Chen and A.W. Leslie 2019. Should non-chemical tactics be used in IWM programs: an emphasis on minor crops. Eastern Shore Vegetable Meeting. Cambridge, MD February 12, 2019. Attendance 45
124. *Yurchak, V., G. Chen, A. W. Leslie and **C.R.R. Hooks** 2019. Why Integrated Weed management (IWM) is vital for organic vegetable farmers. Maryland Organic Food and farming Association (MOFFA) Winter Meeting Annapolis, MD. February 24. Attendance 8

125. **Hooks, C.R.R.** 2019. Weed management in landscape plantings with emphasis on nonchemical options. Southern Maryland Urban Pest Management Conference. Brandywine, MD March 07, 2019. Attendance 70
126. **Hooks, C.R.R.** 2019. Can cover crops be used as a best management practice (BMP) for mitigating crop pests? Charles County's 31th Annual Cooperator Dinner, Waldorf MD May 22, 2019. Attendance 156 (**keynote speaker**)
127. **Hooks, C.R.R.,** A. W. Leslie, V. Yurchak and G. Chen 2020. Using minimum tillage and cover cropping to help organic producers build an ecologically based weed management program. 20th annual Virginia Biological Farming Conference, Roanoke, VA Jan 11-13. Attendance 90
128. **Hooks, C.R.R.,** 2020. Integrated weed management for specialty crops. Southern Maryland Fruit and Vegetable Meeting. Gambrills, MD Feb 06 Attendance 34
129. **Hooks, C.R.R.,** A.W. Leslie, G. Chen, V. Yurchak. 2020. Can conservation tillage and cover crops contribute to integrated weed management? Maryland Commercial Pesticide Conference. Frederick, MD Feb 04. Attendance 123
130. *Veronica, Y., A.W. Leslie, G. Chen, **C.R.R. Hooks.** 2020. Can conservation tillage and cover crops contribute to integrated weed management? Maryland Commercial Pesticide Conference. Denton, MD Feb 06. Attendance 132

III.D.3. Workshops

Work-shop is an extension delivery mode that provides farmers with the knowledge and tools needed to successfully incorporate a new farming practice or manage or mitigate problems that negatively impact crop production. Workshops are intensive formats for the instructor, requiring extra preparation time. In addition to the seminar that typically serves as the beginning of the teaching experience for this outreach mode, workshops devote significant time to hands-on demonstration and interaction with audience members.

Pre-tenure

1. Sugano, J., **C.R.R. Hooks,** M. Anhalt, and D. Kabasawa, 2006. Update of findings from current banana research. Banana growers on Oahu. May, 2006. Kaneohe Extension Office, Oahu, Hawaii.
2. Neupane, K., **C.R.R. Hooks,** E. Perez⁺, D. Kabasawa. 2006. Introduction to banana tissue culture and disease-free planting material. July 13, 2006. Leeward Community College, Oahu, Hawaii.
3. **Hooks, C.R.R.,** M. Anhalt, M.G. Wright, 2007. Banana workshop: Update and future direction of banana research. May, 2007. University of Hawaii at Manoa, Oahu, HI.
4. Hollyer, Jim, **C.R.R. Hooks,** et al. 2007. Banana tissue culture plant distribution policy, moderated discussion. 38th Annual Hawaii Banana Industry Association Conference. August 2007. Oahu, Hawaii.
5. **Hooks, C.R.R.** M. Anhalt, M.G. Wright. 2007. Banana workshop: Update and future direction of banana research. May, 2007. University of Hawaii at Manoa, Oahu, HI.
6. Wang, K.-H., **C.R.R. Hooks,** R. Manandhar. 2007. Preliminary investigation of nematodes inhabiting banana fields in Hawaii and their management options. 38th Annual Hawaii Banana Industry Association Conference. Kalealoe, Oahu, HI. 24 Aug 2007.
7. Nelson, S., **C.R.R. Hooks,** and K.-H. Wang. 2008. Banana diseases. Kohala Seniors, Kapaa'u, North Kohala, HI. Feb 11, 2008. Attendance 66

8. **Hooks, C.R.R.** E. Perez, K.-H. Wang. 2008. Banana workshop: Use and care of tissue cultured plants as part of an integrated disease management strategy. March, 2008. Kaneohe Oahu, HI.
9. **Hooks, C.R.R.**, E. Perez, K.-H. Wang. 2008. University of Hawaii at Manoa, CTAHR centennial Celebrations: Managing banana bunchy top virus. March, 2008. Pearl City, Oahu, HI.
10. **Hooks, C.R.R.**, S. Nelson, and K.-H. Wang. 2008. Banana workshop: A compendious overview of BBTV and its aphid vector, *Pentalonia nigronervosa* April, 2008. Hawi Community Center, Big Island, HI. Attendance 66
11. **Hooks, C.R.R.** 2009. Growers Workshop Carrol County Extension Office, Westminister, MD. Open forum field crops meeting, February 02, 2009. Attendance 90
12. Wang, K.-H., **C.R.R. Hooks**, J. Sugano, S. Fukuda. 2010. Update on Research Work Related to Banana Top Virus: Management and Creating a Niche Market through Utilization of Tissue Culture Banana Varieties Offered through UH CTAHR. CTAHR LIFE program, Urban Garden Center, Pearl City, Oahu. Jan 26, 2010. Attendance 20
13. **Hooks, C.R.R.** 2011. Small Farm Workshop. Beating the bugs in your vegetable crops with true IPM tactics: July 30, 2011. University of Maryland Eastern Shore, Princess Anne, MD. Attendance 10
14. **Hooks, C.R.R.** Small Farm Outreach Workshop. 2012. Using cover crops as part of an IPM plan: March 17, 2012. University of Maryland Eastern Shore, Princess Anne, MD. Attendance 10
15. Wang, K.-H. and **C.R.R. Hooks**. 2012. Updates on banana nematodes and banana bunchy top virus management. Master Gardener Program: Monthly Urban Garden Plant Sale Day. May 12, 2012. Urban Garden Center, Pearl City, Honolulu, HI. Attendance 13.
16. **Hooks, C.R.R.** et al. 2012. Orchardgrass Decline Round-Table Discussion. Davidsonville Family Recreation Center, Davidsonville, MD 21035. August 27, 2012. Attendance 18

Post-tenure

17. **Hooks, C.R.R.** 2014. Sustainable agriculture research discussion: Using cover crops as part of pest management programs. Loveville Produce Auction Board Meeting, Leonardtown, MD. December 12, 2014. Attendance 45.
18. **Chen, G. and **C.R.R. Hooks**. 2016. *Workshop Title: Soil Health Intensive. Presentation title: Soil Health: Concepts and Principles.* Future Harvest CASA'S Cultivate The Chesapeake Foodshed, 17th Annual Conference. College Park, MD January 14 -16. Attendance 50
19. **Hooks, C.R.R.** 2016. *Workshop Title: Ecological Pest Management: managing crop pests by targeting their weak links.* Terrapin Teachers summer workshop for high school teachers. College Park, MD June 23, 2016. Attendance 17
20. **Hooks, C.R.R.** 2017. *Workshop Title: The true life story of a cover cropping journey in vegetables.* Terrapin Teachers summer workshop for high school teachers. College Park, MD June 27, 2017. Attendance 25
21. **Hooks, C.R.R.** 2018. *Workshop Title: How to use cover crops to manipulate pests.* Urban Farmers Winter Meeting, Baltimore, MD January 21, 2018. Attendance 45
22. **Hooks, C.R.R.** 2018. *Workshop Title: Should spiders be embraced in agricultural field?* Terrapin Teachers summer workshop for high school teachers. College Park, MD June 27, 2018. Attendance 25

23. **Hooks, C.R.R.** 2019. *Workshop Title:* Deploying strategies and tactics used in a sporting event to manage insect pests? Terrapin Teachers Math and Science Summer Symposium workshop for high school teachers. College Park, MD June 25, 2019. Attendance 15
24. **Hooks, C.R.R.**, A. Leslie, G. Chen, and V. Yurchak. 2019. *Workshop Title:* Delaware State University Integrated Pest Management Implementation Workshop. *Presentation title:* Integrated weed management and cover cropping for specialty crop growers. Smyrna, Delaware, July 08, 2019. Attendance 36
25. **Hooks, C.R.R.** 2020. *Workshop Title:* Beginning Farmers Training Program. *Presentation title:* Integrated weed management. Online Google Meet, Upper Marlboro, MD May 21, 2020. Attendance 17
26. **Hooks, C.R.R.** 2020. *Workshop Title:* Beginning Farmers Training Program. *Presentation title:* Using ecological pest management as a tool of IPM. Online Google Meet, Upper Marlboro, MD May 27, 2020. Attendance 15

III.D.4. Guest Lectures

Pre-tenure

1. Mid-Atlantic Crop Management School, Princess Royale Hotel and Convention Center. Management of arthropods through modification of the crop environment. Ocean City, MD Nov. 17-19, 2009. Attendance 60
2. Mid-Atlantic Crop Management School, Princess Royale Hotel and Convention Center. Spiders' potential as biological control agents. Ocean City, MD Nov. 16-18, 2010. Attendance 70
3. National Capital Region Watershed Stewards Academy (WSA). Anacostia Watershed Society. Integrated pest management and problems from pesticide use. Bladensburg, MD, March 26, 2011. Attendance 23

Post-tenure

4. Mid-Atlantic Crop Management School, Princess Royale Hotel and Convention Center. Using Cover Crops to Manipulate Populations of Above and Below Ground Organisms. Ocean City, MD Nov. 19-21, 2013. Attendance 80
5. Mid-Atlantic Crop Management School, Princess Royale Hotel and Convention Center. Integrated weed management in vegetables: can we do away with tillage? Ocean City, MD. Nov 15-17, 2016. Attendance 90
6. Advanced BioControl School. Challenges of implementing conservation biocontrol programs in field-based vegetables. PennState Extension, Landcaster, PA - November 5-6, 2015. Attendance 60
7. Advanced BioControl School. Can spiders be used a biological control agent? PennState Extension, Landcaster, PA - November 3-4, 2016. In person attendance 55, live stream views 97 and ?? online views
8. Mid-Atlantic Crop Management School, Princess Royale Hotel and Convention Center. Using perennial ground covers to manipulate pests in vegetable plantings. Ocean City, MD. Nov 13-15, 2018. Attendance 103

III.D.5. Field Days

The Field Day is an outdoor meeting for showcasing new farming practices, sharing on-farm research results and demonstrating how research findings can be implemented. It also serves as a forum to address farmer and other stakeholder questions and concerns related to pest management and other farming issues. This format requires the instructor to establish demonstration plots, prepare handouts, do a short presentation and address attendees' questions. **Note: For twilight tour event, + - denotes undergraduate student in my program gave the presentation; * - Denotes student in my program gave the presentation; ** - denotes Post-Doctoral Associate or Research Associate in my program gave the presentation)**

Pre-tenure

1. **Hooks, C.R.R.** 2008. University of Maryland, AGNR, Open public twilight meeting/field tour. Using cover crops to support sustainable agriculture in MD. Upper Marlboro, MD Aug. 2008. Attendance 106
2. **Hooks, C.R.R.** 2009. Maryland Department of Agriculture Pesticide Committee Tour CMREC Upper Marlboro July, 2009. Using a dying mulch and biopesticides to manage insect pests. Attendance 9
3. **Hooks, C.R.R.** 2009. Maryland Commodity Classic- Wye Field Tour in Queenstown, MD, July 2009. Research activity update with field crops. Attendance 85
4. **Hooks, C.R.R.** 2009. University of Maryland, AGNR, Open public twilight meeting/field tour. Intercropping and Cover Crop IPM systems, Upper Marlboro, MD August 6, 2009. Attendance 95
5. **Hooks, C.R.R.** 2010. University of Maryland, AGNR, Open public twilight field tour. Vegetable intercropping and cover crop IPM Systems, Upper Marlboro, MD Aug. 4, 2010. Attendance 103
6. **Hooks, C.R.R.** 2011. Maryland Commodity Classic-Wye Field Tour in Queenstown, MD, July 28, 2011. Research activity and update on BMSB management. Attendance 90
7. **Hooks, C.R.R.** 2011. University of Maryland, AGNR, Open public twilight meeting/field tour. Vegetable IPM Systems, Upper Marlboro, MD August 4, 2011. Attendance 103
8. **Hooks, C.R.R.** 2012. University of Maryland, AGNR, Meeting with University of the District of Columbia, College of Agriculture, Urban Sustainability and Environmental Sciences - Extension Agents and Administrators to discuss current research projects and potential future collaboration, University of Maryland, Upper Marlboro, MD May 30, 2012. Attendance 20
9. **Hooks, C.R.R.** 2012. Maryland Commodity Classic-Wye Field Tour in Queenstown, MD, July 26, 2012. Research activity and updates on using cover crops in agronomical cropping systems and stink bug biological control in corn and soybean plantings. Attendance 75
10. **Hooks, C.R.R.** 2012. University of Maryland, AGNR, Open public twilight meeting/field tour. Conservation biological control for stink bug management in soybean and whole farm organic vegetable production, Upper Marlboro, MD August 2, 2012. Attendance 65
11. **Hooks, C.R.R.** 2012. University of Maryland, AGNR, Organic Vegetable Field Day, Using cover crops and various tillage practices for organic vegetable systems, Upper Marlboro, MD August 9, 2012. Attendance 45

Post-tenure

12. **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Open public twilight meeting/field tour. Cover Crop Weed Management Demo; Conservation Biological Control of Stink Bugs. Upper Marlboro, MD August 2, 2013. Attendance 65

13. **Buchanan, A., Polley, G. Lynagh, P. and Chen, G. and **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Open public twilight meeting/field tour. Organic Vegetable Planting Systems, Cover Crops and Greenhouse Gas Emissions. Upper Marlboro, MD August 2, 2013. Attendance 65
14. **Hunt, L., Rosario-Lebron, A. and **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Organic Vegetable Field Day. Using flowering border plants to increase stink bug natural enemies. Upper Marlboro, MD August 9, 2013. Attendance 45, <http://smadc.com/blog/>
15. **Buchanan and **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Organic Vegetable Field Day, Using winter cover crops to enhance organic vegetable industry. Upper Marlboro, MD August 9, 2013. Attendance 45, <http://smadc.com/blog/>
16. +Polley, G., Lynagh, P., Chen, G. and **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Organic Vegetable Field Day, The influence of cover crops and tillage on soil quality and greenhouse gas emission in sweet corn. Upper Marlboro, MD. August 9, 2013. Attendance 45, <http://smadc.com/blog/>
17. *Hunt, L., Rosario-Lebron, A. and **Hooks, C.R.R.** 2013. University of Maryland, AGNR, Horticultural Crops Twilight Meeting. Using flowering border plants to increase stink bug natural enemies Wye Research and Education Center (Wyerec), Queenstown, MD, August 28, 2013. Attendance 30
18. *Rosario-Lebron, A. **C.R.R. Hooks**, L. Hunt, J. Chavez, E. Zobel and T. Larmore. 2013. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House "Increasing Natural Enemies using Habitat Manipulation with Nectar Producing Plants and investigating the cause of Unknown Mortality in Stink Bug Egg Masses in Soybean, Clarksville, MD October 05, 2013. (Poster Presentation) Attendance ~100
19. *Hunt, L. and **C.R.R. Hooks**. 2013. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House. Effects of flowering borders on biological control of pests in organic field corn. Clarksville, MD October 05, 2013. (Poster Presentation) Attendance ~100
20. *Zobel, E., G. Dively, **C.R.R. Hooks**. 2013. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House. The life stage preferences of the brown marmorated stink bug, *Halyomorpha halys* (Hemiptera: Pentatomidae), on select vegetable crops. Clarksville, MD October 05, 2013. (Poster Presentation) Attendance ~100
21. *Rosario-Lebron, A., G. Chen, **C.R.R. Hooks**. 2014. Barley Residue and Herbicide Management Practices: Effects on Insects, Weeds, Soil Moisture Content in Soybean. Maryland Grain Producer - Commodity Classic. Centreville, MD July 24, 2014. (Poster Presentation) Attendance ~25
22. **Chen, G. and **C.R.R. Hooks**. 2014. Evaluating the use of tillage radish to mitigate soil compaction and improve other ecosystem services in soybean. Maryland Grain Producer - Commodity Classic. Centreville, MD July 24, 2014. (Poster Presentation) Attendance ~25
23. +Hellman, E., Coffey, P. and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Open public twilight meeting/field tour. Using cover crops to design more sustainable weed and insect pest management systems for vegetable producers. Upper Marlboro, MD August 7, 2014. Attendance 7
24. *Lauren G. Hunt and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Open public twilight meeting/field tour. Using partridge pea as an insectary plant to help manage stink bugs and other insect pests. Upper Marlboro, MD August 7, 2014. Attendance 75

25. ⁺Russell, D., G. Chen and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Organic Vegetable Field Day. The influence of conservation tillage practices on environmental and ecological factors in eggplant. Upper Marlboro, MD August 14, 2014. Attendance 75
26. ⁺Hellman, E., Coffey, P. and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Organic Vegetable Field Day. Using cover crops to design more sustainable weed and insect pest management systems for vegetable producers. Upper Marlboro, MD August 14, 2014. Attendance 40
27. ^{*}Lauren G. Hunt and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Organic Vegetable Field Day. Using partridge pea as an insectary plant to help manage stink bugs and other insect pests. Upper Marlboro, MD August 14, 2014. Attendance 4
28. ⁺Russell, D., G. Chen and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Organic Vegetable Field Day. The influence of conservation tillage practices on environmental and ecological factors in eggplant. Upper Marlboro, MD August 14, 2014. Attendance 40
29. ^{*}Hunt, Lauren G. and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Vegetable Twilight Meeting. Using companion plants to influence beneficial insects. Queenstown, MD August 27, 2014. Attendance 30
30. ^{*}Coffey, P. and **C.R.R. Hooks**. 2014. University of Maryland, AGNR, Vegetable Twilight Meeting. Examining cover crop manipulation to influence insect and weed pests in bean and eggplant crops. Queenstown, MD August 27, 2014. Attendance 30
31. ^{*}Rosario-Lebron, A. and **C.R.R. Hooks**. 2014. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House "Increasing Natural Enemies using Habitat Manipulation with Nectar Producing Plants and investigating the cause of Unknown Mortality in Stink Bug Egg Masses in Soybean, Clarksville, MD October 11, 2014. (Poster Presentation) Attendance ~100
32. ^{*}Hunt, L. and **C.R.R. Hooks**. 2014. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House. Impacts of microhabitat manipulation on pest management in organic field corn systems. Clarksville, MD October 11, 2014. (Poster Presentation) Attendance ~100
33. ^{*}Coffey, P., G. Chen and **C.R.R. Hooks**. 2014. University of Maryland College of Agriculture and Natural Resources (AGNR) Open House. Economic Optimization of Cover Crops for Eggplant Production. Clarksville, MD October 11, 2014. (Poster Presentation) Attendance ~100
34. **Hooks, C.R.R.** and A. Rosario-Lebron. 2015. Virginia Cooperative Extension (Virginia Tech and Virginia State University). Using cover crops for weed suppression. On-Farm Twilight Vegetable Growers Meetings, Rixeyville, VA May 12, 2015. Attendance 17.
35. ^{*}Rosario-Lebron, A., G. Chen, and **C.R.R. Hooks**. 2015. Effects of rye seeding rate and termination method on soil moisture, soil temperature and weed community dynamics in no-till drilled soybeans. Maryland Grain Producer - Commodity Classic. Centreville, MD July 23, 2015. (Walking Tour) Attendance 45
36. ^{*}Coffey, P. and **C.R.R. Hooks**. 2015. University of Maryland, AGNR, Open public twilight meeting/field tour. Managing pest with cover crops. Upper Marlboro, MD August 6, 2015. Attendance 60
37. **C.R.R. Hooks** and Hanna Kahl. 2015. University of Maryland, AGNR, Open public twilight meeting/field tour. Benefits of crop diversification. Upper Marlboro, MD August 6, 2015. Attendance 60

38. *Coffey, P. and **C.R.R. Hooks**. 2015. University of Maryland, AGNR, Organic vegetable field day. Managing pest with cover crops. Upper Marlboro, MD August 13, 2015. Attendance 40
39. **C.R.R. Hooks** and Hanna Kahl. 2015. University of Maryland, AGNR, Organic vegetable field day. The Benefits of organic IPM and Crop Diversification. Upper Marlboro, MD August 13, 2015. Attendance 40
40. *Rosario-Lebron, A., H. Kahl and **C.R.R. Hooks**. 2015. University of Maryland, AGNR, Western Maryland Research & Education Center Twilight Tour Meeting. Organic IPM, cover crops and pest management. August 19, 2015. Attendance 52
41. *Lauren G. Hunt, Hanna Kahl and **C.R.R. Hooks**. 2015. University of Maryland, AGNR, Wye Research and Education Center. Late Summer Horticultural Crops Educational Twilight Tour. Some Ecosystem Benefits of Organic IPM and Plant Diversification. Queenstown, MD. September 09, 2015. Attendance: 45
42. **C.R.R. Hooks**. 2016. Virginia Tech, Vegetable Twilight Meeting Walking Tour. June 28, 2016 Centreville, VA. Attendance 20
43. **C.R.R. Hooks**. 2016. Vegetable Production and IPM Twilight Walking Tour 2016. Mechanicsville, MD. July 25, 2016. Attendance 50
44. **Leslie, A. and **C.R.R. Hooks**. 2016. Organic weed management using reduced tillage and cover cropping. College of Agriculture and Natural Resources - Maryland Agricultural Experiment Station annual employee luncheon and tour. Upper Marlboro, MD. August 10, 2016. Attendance 70
45. **C.R.R. Hooks**. 2016. Getting the most out of your winter cover crop in beans. Sustainable agriculture and organic twilight meeting tour. Upper Marlboro, MD. August 11, 2016. **Note:** CRRH was the organizer of the twilight tour event. Attendance 74
46. **Leslie, A and **C.R.R. Hooks**. 2016. Organic weed management: mulching, roller crimper, conservation tillage. Upper Marlboro, MD. August 11, 2016. Attendance 74
47. *Kahl, H. and **C.R.R. Hooks**. 2016. Red clover: what can it do for beneficials, pests, pollinators and greenhouse gas emission? Upper Marlboro, MD. August 11, 2016. Attendance 74
48. *Coffey, P. and **C.R.R. Hooks**. 2016. Using strip-tiller and sterile seed-bed method for weed and insect manipulation. Upper Marlboro, MD. August 11, 2016. Attendance 74
49. *Coffey, P. and **C.R.R. Hooks**. 2016. Cover crop and tillage management's influence on weeds in vegetable production. WMREC Horticultural Crops Twilight Meeting and Tour. Keedysville, MD. August 18, 2016. Attendance 78
50. *Leslie, A. and **C.R.R. Hooks**. 2016. Alternative vegetable production systems. Wye Research and Education Center Late Summer Horticultural Crops Twilight Tour. August 24, 2016. Attendance 35
51. **C.R.R. Hooks**. 2017. Organic weed management in vegetable with conservation tillage and cover cropping. Field crops twilight, barbeque and ice cream social tour, Upper Marlboro, MD. August 10, 2017. **Note:** CRRH was one of two co-organizers of this twilight tour event. Attendance 110
52. **Leslie, A. and **C.R.R. Hooks**. 2017. Organic weed management in vegetable with conservation tillage and cover cropping. Field crops twilight, barbeque and ice cream social tour, Upper Marlboro, MD. August 10, 2017. Attendance 110

53. Tubene, S., G. Chen and **C.R.R. Hooks**. 2017. Eggplant production: Best economic practices. Field crops twilight, barbeque and ice cream social tour, Upper Marlboro, MD. August 10, 2017. Attendance 110
54. **C.R.R. Hooks** and A. Leslie. 2017. Establishing over wintering habitats for stink bug natural enemies. College of Agriculture and Natural Resources - Maryland Agricultural Experiment Station annual employee luncheon and tour. Keedysville, MD. August 16, 2017. Attendance 60
55. **C.R.R. Hooks**. 2017. Companion plantings for increased biocontrol and Cover crop effects on pests and natural enemies. University of Maryland, AGNR, Organic vegetable field day. Upper Marlboro, MD August 17, 2017. Attendance 45
56. **Leslie, A. and **C.R.R. Hooks**. 2017. Weed control in organic vegetable systems. University of Maryland, AGNR, Organic vegetable field day. Upper Marlboro, MD August 17, 2017. Attendance 45
57. Tubene, S., G. Chen and **C.R.R. Hooks**. 2017. Eggplant production: Best economic practices. Field crops twilight, barbeque and ice cream social tour, Upper Marlboro, MD. August 17, 2017. Attendance 45
58. **C.R.R. Hooks**. 2017. A cucumber beetle farmer participant program. Vegetable Production and IPM Twilight Walking Tour 2017. Mechanicsville, MD. August 18, 2017. Attendance 60
59. **Leslie, A., H. Kahl and **C.R.R. Hooks**. 2017. Sustainable weed management, red clover, pollinators and greenhouse gas emissions. Late Summer Vegetable Twilight Meeting. Wye Research and Education Center Farm Complex, Queenstown, MD. August 23, 2017. Attendance 35
60. *Kahl, H., Leslie A., and **C.R.R. Hooks**. 2017. University of Maryland, AGNR Open House. Environmental Benefits of Cover Cropping. Central Maryland Research and Education Center, Clarksville, MD. 14 October 2017. (Exhibition). Visitors: ~200
61. **Hooks, C.R.R.**, D. Smith and A. Leslie. 2018. Cover cropping, insectary plants and stink bug natural enemies. Wye Research and Education Center Late Summer Horticultural Crops Twilight Tour. Queenstown, MD July 25, 2018. Attendance 30
62. **C.R.R. Hooks**. 2018. Using strip tillage in vegetable production. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 08, 2018. Attendance 110
63. **Leslie, A. and **C.R.R. Hooks**. 2018. Benefits of living mulch for vegetable production. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 08, 2018. Attendance 110
64. **C.R.R. Hooks**. 2018. Habitat manipulation and cucumber beetle management. Vegetable Production and IPM Twilight Walking Tour. Mechanicsville, MD August 10, 2018. Attendance 60
65. **Leslie, A and **C.R.R. Hooks**. 2018. Using living mulches for weed suppression in vegetables. Vegetable Production and IPM Twilight Walking Tour. Mechanicsville, MD August 10, 2018 Attendance 60
66. *Smith, D. and **C.R.R. Hooks**. 2018. Benefits of planting marigold as an insectary plant. University of Maryland, AGNR, Organic vegetable field day. Upper Marlboro, MD August 15, 2018. Attendance 14
67. *Johnson, V. and **C.R.R. Hooks**. 2018. Using cover crops and strip-tillage for weed suppression. University of Maryland, AGNR, Organic vegetable field day. Upper Marlboro, MD August 17, 2018. Attendance 14

68. **Leslie, A and **C.R.R. Hooks**. 2018. Using living mulch for managing weeds in vegetables. University of Maryland, AGNR, Organic vegetable field day. Upper Marlboro, MD August 17, 2018. Attendance 14
69. **C.R.R. Hooks**. 2019. Marigold use as an insectary plant to enhance stink bug egg mortality. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 07, 2019. Attendance 85
70. *Dimock, M. and **C.R.R. Hooks**. 2019. Intercropping impacts on stink bug and harlequin bug egg mortality. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 07, 2019. Attendance 85
71. **Debak, E. and **C.R.R. Hooks**. 2019. Climate change impact on parasitoids of the brown marmorated stink bug. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 07, 2019. Attendance 85
72. *Yurchak, V. and **C.R.R. Hooks**. 2019. Using living and dying mulch for pest control in sweet corn. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 07, 2019. Attendance 85
73. *Nunez, D. and **C.R.R. Hooks**. 2019. Perennial cover crops impact on natural enemy populations. Crops Twilight Tour, Barbeque and Ice Cream Social, Upper Marlboro, MD. August 07, 2019. Attendance 85
74. **C.R.R. Hooks**. 2019. Using insectary plants to mitigate stink bug problems in vegetable plantings. Southern Maryland Vegetable IPM and Production Walking Tour. Leonardtown, MD August 12, 2019. Attendance 100

III.D.6. Media activities - interview

Pre-tenure

1. **Hooks, C.R.R.** 2007. Controlling Banana bunchy top virus. Hawaii Public Radio Station, December 2007
2. **Hooks, C.R.R.** 2010. Washington Post 2010. News line, Stink bug infestation to worsen. *Interviewed by* journalist Joel Davis, Published: July 21, 2011
3. **Hooks, C.R.R.** 2012. News line, Warm winter points to buggy summer 2012. *Interviewed by* journalist Claire Saravia Capital News Service -WTOP. Thursday - 4/5/2012, 12:23pm ET
www.wtop.com/41/2815925/Warm-winter-points-to-buggy-summer. Jul. 08, 2011
4. **Hooks, C.R.R.** 2012. Northeast IPM Center 2012. Serving up a bitter end for eggplant pests. *Interviewed by* Liane Worthington. “<http://www.northeastipm.org/aboutus/publications/ipm-insights/serving-up-a-bitter-end-for-eggplant-pests/>”.
5. **Hooks, C. R.R.** 2012. Kudzu nymphs could create problems for soybean. *Interviewed by* Michel Elben staff reporter Delmarva newspaper. <http://www.americanfarm.com/publications/the-delmarva-farmer/1474-kudzu-nymphs-could-create-problems-for-soybeans>

Post-tenure

6. *Hunt, L. G., Rosario-Lebron, A. and **C.R.R. Hooks**. 2013. BMSBs shown to be behaviorally manipulated (Sept. 3, 2013) *Interviewed by* Michel Elben staff reporter The Delmarva Farmer newspaper. <http://www.americanfarm.com/publications/the-delmarva-farmer/archives/2182-bmsbs-shown-to-be-behaviorally-manipulated>

7. **Hooks, C.R.R.** 2013. Wall Street Journal 2013. Shutdown Raises a Stink- But Not the Kind You Think. In the Capital, Odorous Bugs Flourish During Government Hiatus. *Interviewed* by Elizabeth Williamson reporter. The Wall Street Journal.
<http://online.wsj.com/news/articles/SB10001424052702304384104579143212962343326>

III.D.7. Panel discussions

Post-tenure

1. *Latest Research from Local Scientist – Organic farmers research needs. 2018.* Served as a panelist in which we discussed ongoing research, addressed questions from audience members and listen to their research needs. The University of Maryland Extension, Organic Production Meeting: Grain, Dairy, Vegetables & Poultry. Wye Mills, March 09. Attendance 60
2. *Organic Round Table discussions – Current challenge and research in organic production. 2019.* Discuss current research in grain and vegetable production as well as listen to challenges being faced by the organic industry. University of Maryland Extension, USDA ARS, Maryland Department of Agriculture, Frederick Nov 05. Attendance 7
3. *Organic Round Table discussions – Current challenge and research in organic production. 2019.* Discuss current research in grain and vegetable production as well as listen to challenges being faced by the organic industry. University of Maryland Extension, USDA ARS, Maryland Department of Agriculture Bel Alton, MD November 06. Attendance 20

IV. SERVICE and OUTREACH

IV.A. Review services

IV.A.1. Reviewing activity for Journals and Presses (since 2009)

Referee for Journal Articles (2009 – present)

Journal	Number reviewed	
	2008-2012 (pre-tenure)	2013-present (post tenure)
Agricultural and Forest Entomology	1	2
Ecological Entomology	1	0
Phytoparasitica	1	0
Annals of Applied Biology	0	1
Journal of Economic Entomology	2	3
Florida Entomologist	2	0
Environmental Entomology	1	2
Entomologia Experimentalis et Applicata	1	4
Virus Research	1	0
Journal of Integrated Pest Management	1	0

Biological Control	2	4
Bulletin of Entomological Research	1	0
International Journal of Pest Management	1	2
Crop Protection	0	3
Annals of Applied Biology	0	1
HortScience	0	1
Proceedings of the Hawaiian Entomol Society	0	1
Annals of Entomological Society of America	0	1
Pest Management Science	0	2
Agronomy	0	2
Journal of Asian-Pacific Entomology	0	1
Agriculture Ecosystem and Environment	0	1
Insects	0	2
TOTAL	15	33

IV.A.2. Reviewing activities for Agencies and Foundations

Pre-tenure

1. United States Department of Agriculture- Agricultural Research Service - Office of Scientific Quality Review - Insect Biology Project Plants Review Panel - August 2010
2. United States Department of Agriculture, National Institute of Food and Agriculture (NIFA) North Central Region Integrated Pest Management Grant Review Panel - April 2012

Post-tenure

3. United States Department of Agriculture, National Institute of Food and Agriculture (NIFA) North Central Region Integrated Pest Management Grant Review Panel - Jan 2014
4. United States Department of Agriculture, National Institute of Food and Agriculture (NIFA) AFRI Pest and Beneficial Species Grant Review Panel -Jan 2017
5. United States Department of Agriculture, National Institute of Food and Agriculture (NIFA) Small Business Innovation Research (SBIR) Small and Medium Sized Farm Program Grant Review Panel -Feb 2018

IV.B. Committees, Professional & Campus Service

IV.B.1. Campus Service -Department

1. Entomology Graduate Affairs Committee, 2009 - 2011.
2. Chair of department web page committee, 2012 – 2014
3. Search committee for Assistant Professor Pollinator Health and Sustainability, Summer 2013 - Fall 2014
4. Search committee for Assistant Professor of Sustainable Agroecosystems Entomologist, Fall 2013-Spring 2014
5. Search committee for Assistant Professor Community Ecology and Forest Ecologist
6. FEC Committee 2016-2017 & 2017-2018

7. Creation of panel to review graduate student grants 2018-2020
8. Promotional committee for Principal Lecturer 2020

IV.B.3. Campus Service – College

Pre-tenure

1. Search committee for College of Computer Mathematical Natural Sciences, Department of Entomology Chair Search Committee Fall 2011 - Spring 2012.
2. Faculty Marshall for University of Maryland College of Computer, Mathematical, and Natural Sciences Graduation Ceremony, December 22, 2011
3. Review Maryland Agricultural Experiment Station proposal – Spring 2011
4. Search committee for College of Agricultural and Natural Resources Search, Central Maryland Research and Educational Center Station Manager Search Committee Spring 2012 - Summer 2012

Post-tenure

5. Search committee for College of Agricultural and Natural Resources Search, Central Maryland Research and Educational Center Station Manager Search Committee Summer 2013
6. Search committee for College of Agricultural and Natural Resources Search, Plant Science & Landscape Architecture, Search Committee for Assistant Professor (Agricultural Ecology) Fall 2013
7. Search committee for College of Agricultural and Natural Resources Search, Plant Science & Landscape Architecture, Search Committee for Assistant Professor (Landscape Management /Urban Ecology) Fall 2013
8. Search committee for College of Agricultural and Natural Resources Search, Wye Research and Educational Center Station Manager Fall 2013
9. CMNS Entomology Graduate Affairs Committee, 2014
10. Search committee for College of Agricultural and Natural Resources Search, Wye Research and Educational Center Station Manager Summer 2015
11. Search committee for College of Agricultural and Natural Resources Search, Upper Marlboro Research and Educational Center Station Manager Summer 2015
12. Search committee for College of Agricultural and Natural Resources Search, Assistant Director of Extension Fall 2016- Spring 2017
13. Strategic Positioning Team Committee member for College of Agricultural and Natural Resources - Jan 2017 – May 2017
14. Search committee for College of Computer, Mathematical and Natural Sciences, Departments of Entomology Search August 2017 – Feb 2018
15. Review HATCH proposal February 2019.

IV.B.3. Campus Service - University

1. Mentor for Maryland Student Researchers Program 2008-2009.
2. Integrated Pest Management Coordinator for the state of Maryland - July 2010 - present,
3. Maryland Day. Participants of “Insect Petting Zoo” University of Maryland, College Park, MD April 25, 2009. Attendance 100s

4. University of Maryland Eastern Shore undergraduate student visit at UMD in College Park, April 29, 2009. Presentation of applied research and the field of Entomology. Attendance 10
5. Maryland Day. Participants of “Insect Petting Zoo” University of Maryland, College Park, MD April 24, 2010. Attendance 100s
6. College Park Scholars Service Day. Talk to undergraduate scholars and provided hands on demonstration on the use of natural enemies and plant biodiversity to manage pests in crops. CMREC Upper Marlboro, MD Facility on August 29, 2011. Attendance 82
7. College Park Scholars Service Day. Talk to undergraduate scholars and provided hands on demonstration on the use of cover crops and other crop husbandry practices to manage pests in organic cropping systems. CMREC Upper Marlboro, MD Facility August 27, 2012. Attendance 85
8. Mentor for Maryland Student Researchers Program 2014-2015
9. College Park Scholars Service Day. Graduate student Peter Coffey educated nine undergraduate scholars on benefits of and usage of organic IPM and crop diversification, and allowed them hands on participations in plots demonstrating how these pest management concepts can be deployed in vegetable cropping systems. University of Maryland Research and Education Center, Upper Marlboro, MD Facility on August 28, 2015.
10. College Park Scholars Service Day. Postdoctoral Research Alan Leslie educated 10 undergraduate scholars on benefits of and usage of cover cropping and strip tilling to manage weeds in organic vegetable systems and allowed them hands on participations in plots demonstrating how these practices impact yield and soil arthropods. University of Maryland Research and Education Center, Upper Marlboro, MD Facility on August 26, 2016.
11. College Park Scholars Service Day. Postdoctoral Research Alan Leslie educated 10 undergraduate scholars on benefits of and usage of cover cropping and strip tilling to manage weeds in organic vegetable systems and use of marigold as an insectary plant. Students were allowed hands on participations in marigold plots to locate host eggs of natural enemies. University of Maryland Research and Education Center, Upper Marlboro, MD Facility on August 25, 2017.
12. Volunteer for GEM Grad Lab Graduate Resource Fair. University of Maryland, College Park. October 21, 2017. Recruitment of undergraduate in STEM graduate studies.

IV.B.4. Other Non-University Committees, Memberships, Panels, etc

IV.B.4.1 Service to professional organization

Membership- Entomological Society of America, Weed Science Society of America

Co-organize scientific symposia

1. *Professional Organization*: Entomological Society of America. *Title of Symposia*: “Integrating integrated pest management” San Diego, California November 2007
2. *Professional Organization*: International Organization of Biological Control. *Meeting*: Joint International Organization for Biological Control (IOBC) - Nearctic and Neotropic Regional Sections Conference. *Title of Symposia*: Ecosystems landscape and habitat management to improve biological control. Niagara Falls, Canada May 2010.

3. Fourth Annual Northeast Area BARC-UMD Symposium, Organic Food: Food, Health and Ecosystems. November 13, 2014. Beltsville, MD. *Title of Symposia: Current and emerging organic research issues in Fruits and Vegetables.* November 13, 2014. Beltsville, MD.

Moderator of symposia

4. *Professional Organization: Title of Session: Integrated Pest Management and Sustainable Agriculture: IPM Programs.* XXV International Congress of Entomology, Orlando, FL September 25-30, 2016.

IV.B.4.2. Service to stakeholder groups

IV.B.4.2.1. Working group

Agriculture Working groups operate to produce and share adaptation strategies and research priorities to solve problems faced by the agricultural community. The Agriculture Working Group actively engage and collaborate with researchers, policy makers, specialists from government and nonprofit entities, citizens and the agricultural industry itself.

1. Coli, W. M. (PD) - Northeastern IPM Center – IPM Partnership Grants – 2009-2012. Northeastern Region IPM Evaluation Working Group (C. R. R. Hooks - working group member).
2. Tubene, S. (PD) Small Farms IPM Working Group (C. R. R. Hooks - working group member) 2011-2012. Establish collaboration and training for small and resource challenged farmers
3. Whalen, J. (PD) - Northeastern IPM Center – IPM Partnership Grants – 2011-2012. Mid-Atlantic High Residue Cropping Systems IPM Working Group (HRIWG) Focusing on Slug Management for soybean and corn growers.
4. Grieshop, M. (PD) - Planning grant to prepare a multi-disciplinary, multi-state, multi-commodity 2012 full proposal on the development and delivery of organic pest management for the brown marmorated stink bug, *Halyomorpha halys*.

IV.B.4.2.2. Others

1. Discussion with Maryland Soybean Board (MSB) to help establish new soybean research priorities. College Park, MD July 31, 2012.
2. Northeastern IPM Center Advisory Council October 2014-present
3. Board member of Maryland Organic Food and Farming Association (MOFFA) February 2014-2018
4. Chair of Maryland Organic Food and Farming Association February 2018 - February 2020