

2016 Curriculum Vitae



NAME: John E. Losey
DEPARTMENT/UNIT: Entomology
TITLE: Professor
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EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1996	Ph.D./Entomology	University of Maryland
1992	M.S./Entomology	Pennsylvania State University
1986	B.A./B.S./Biology	Oberlin College

PROGRAM DESCRIPTION (60% research, 30% teaching, 10% extension)

Research: Applied population ecology of arthropods: Integrated pest management (IPM).
Teaching: ENTOM 201, 344, 444, 644, 672
Extension: Insect biodiversity and conservation primarily through The Lost Ladybug Project

PROFESSIONAL EXPERIENCE

2016-present Professor, Department of Entomology, Cornell University
2003-2016 Associate Professor, Department of Entomology, Cornell University
1997-2003 Assistant Professor, Department of Entomology, Cornell University
1996-1997 Postdoctoral Research Associate, The University of Wisconsin

HONORS AND AWARDS

2014 Eastern Branch nominee for Entomological Society of America Distinguished Achievement in Extension Award (national selection pending)
2013 Nominee for White House Office of Science and Technology Policy “Champions of Change” Award
2010 Official Citation – Future Farmers of America – Conrad Weiser Chapter

DEPARTMENTAL SERVICE

2013-present Department Outreach Committee
2006-2010 Director of Undergraduate Studies
2009-2011 Director of Graduate Studies
2010 Department Merger Committee

COLLEGE SERVICE

2016-present Senator, CALS Faculty Senate
2009-2010 Chair, CALS Faculty Senate
2007-2009 Senator, CALS Faculty Senate
2009, 2013 *Ad hoc* Tenure Committees
2007 Quantitative Literacy Committee
2006 Non-majors Biology Committee

EDITORIAL BOARDS

2003-2004 Subject editor, Bulletin of Entomological Research
2008-Present Subject editor, Journal of Insect Conservation Biology

GRANT AND MANUSCRIPT REVIEWS

Grant Panels

"NSF-Informal Science Education", Preliminary Review Panel (2012)
"USDA- AFRI Panel - Entomology and Nematology", Research Review Panel (2009).
"USDA - Southern Region IPM Grant Panel", Research Review Panel (2009).

Journal Articles Reviewed (since 2008)

Biological Control, 1 review.
Entomologica Experimentalis et Applicata, 1 review.
Environmental Entomology, 1 review.
Frontiers in Ecology, 1 review.
Phytoparasitica, 1 review.
Science, 1 review.
Trends in Ecology and Evolution, 1 review.
Biological Control, 1 review.
Great Lakes Entomologist, 1 review.
Journal of Applied Ecology, 1 review.
Journal of Insect Conservation, 4 reviews.

OTHER PROFESSIONAL SERVICE

2006-Present Counselor – The Xerces Society for Invertebrate Conservation

RESEARCH OVERVIEW (60% FTE)

The main focus of my position is integrated pest management or IPM. While I have touched on many aspects of IPM including sampling and resistance management, the major thrust of my program has been and continues to be the assessment of non-target impacts. A large proportion of my research effort is directed towards assessing the non-target impact of transgenic crops and classical biological control agents. Although I continue to address a range of systems and organisms, my main focus is to better understand the ecology and agricultural impact of predatory coccinellids. I believe this group of just over 70 species in North America provides a unique opportunity to answer both basic and applied questions. Coccinellids occupy a unique position in respect to IPM because within the same guild there are introduced biological control agents that may now be considered

invasive and native species that were once common but now may be headed to extinction. The vital role that these predators play in pest suppression is illustrated by the amount of effort that goes into locally protecting and facilitating them (e.g. conservation biological control) and the fact that their densities are incorporated directly into IPM decision-making. While I plan to maintain a program flexible enough to follow promising research leads as they arise, most of my research falls into the three categories: 1) assessing the distribution and abundance of predatory coccinellids, 2) estimating the impact of changes in the coccinellid complex on pest and non-target populations and, 3) determining the mechanism for native coccinellid decline.

PEER-REVIEWED PUBLICATIONS

*All publications in this list were reviewed by an editor and anonymous peer reviewers
*See “other publications” in this CV and Extension/Outreach for non-peer-reviewed publications

Published and Accepted

65. DiTommaso, A., Averill, K., Hoffmann, M., Fuchsberg, J. and Losey, J. [2016] Integrating insect, resistance, and floral resource management in weed control decision-making. (Weed Science – accepted pending revision).
64. HE Roy, PMJ Brown, T Adriaens, N Berkvens, I Borges, S Clusella-Trullas, RF Comont, P De Clercq, R Eschen, A Estoup, EW Evans, B Facon, MM Gardiner, A Gil, AA Grez, T Guillemaud, D Haelewaters, A Herz, A Honek, AG Howe, C Hui, WD Hutchison, M Kenis, RL Koch, J Kulfan, LL Handley, E Lombaert, A Loomans, **J Losey**, AO Lukashuk, DMAes, A Magro, KM Murray, G San Martin, Z Martinkova, IA Minnaar, O Nedved, MJ Orlova-Bienkowskaja, N Osawa, W Rabitsch, HP Ravn, G Rondoni, SL Rorke, SK Ryndevich, M Saethre, JJ Sloggett, AO Soares, R Stals, MC Tinsley, A Vandereycken, P van Wielink, S Vigišová, P Zach, IA Zakharov, T Zaviezo, Z Zhao. (2016). The harlequin ladybird, *Harmonia axyridis*: global perspectives on invasion history and ecology. *Biological Invasions* (2016) 18: 997. doi:10.1007/s10530-016-1077-6.
63. Diepenbrock, L. M., Fothergill, K., Tindall, K. V., Losey, J. E., Smyth, R. R., & Finke, D. L. (2016). The Influence of Exotic Lady Beetle (Coleoptera: Coccinellidae) Establishment on the Species Composition of the Native Lady Beetle Community in Missouri. *Environmental Entomology*, nvw065.
62. Park, M. G., Raguso, R. A., Losey, J. E., & Danforth, B. N. (2016). Per-visit pollinator performance and regional importance of wild *Bombus* and *Andrena* (*Melandrena*) compared to the managed honey bee in New York apple orchards. *Apidologie*. 47:145-160.
61. Park, M. G., Blitzer, E. J., Gibbs, J., Losey, J. E., & Danforth, B. N. (2015). Negative effects of pesticides on wild bee communities can be buffered by landscape context. *Proc. R. Soc. B* 282:20150299.

60. Turnipseed, R., T. Ugine, and J.E. Losey. (2015). Egg predation by the invasive lady beetle, *Coccinella septempunctata* (Coleoptera:Coccinellidae), lowers mortality but raises relative risk for the native lady beetle, *Coccinella novemnotata*. PloS one 10 (6), e0118493.
59. Tumminello, G., T. Ugine, and J.E. Losey. (2015). Intraguild Interactions of Native and Introduced Coccinellids: The Decline of a Flagship Species. Environmental Entomology. 44:64-72.
58. Brandt, D.M., P.J. Johnson, J.E. Losey, M.A. Catangui, and L.S. Hesler. (2015). Development and survivorship of a predatory lady beetle, *Coccinella novemnotata*, on various aphid diets. BioControl 60:221-229.
57. DiTommaso, A., M. Ryan, C.L. Mohler, D.C. Brainard, L.L. Allee, and J.E. Losey. (2014). Effect of Cry3Bb transgenic maize and tefluthrin on post-dispersal weed seed predation. Weed Science. 62:619-624.
56. Sickler, J., T.M. Cherry, J.E. Losey, L. Allee, and, R. R. Smyth. (2014). Scientific value and educational goals: balancing priorities and increasing adult engagement in a citizen science project. Applied Environmental Education Communication. 13:109-119.
55. Turnipseed, R., T. Ugine, and J.E. Losey. (2014). Effect of prey limitation on competitive interactions between a native lady beetle, *Coccinella novemnotata*, and invasive lady beetle, *Coccinella septempunctata* (coleoptera: coccinellidae). Environmental Entomology. 43:969-976.
54. Ugine, T., and J.E. Losey. (2014). Development times and age-specific life table parameters of the native lady beetle species *Coccinella novemnotata* (Coleoptera:Coccinellidae) and its invasive congener *Coccinella septempunctata* (Coleoptera:Coccinellidae). Environmental Entomology. 43:1067-1075.
53. Fox, T.B., M. Caillaud, and J.E. Losey. Temperature and host condition affect phenotypic plasticity in the pea aphid (*Acyrtosiphon pisum*) (Homoptera: Aphididae). (Accepted: Journal of Insect Science 4/4/14).
52. Losey, J.E., E. Stephens, L. Allee, P. Priolo, R. Smyth and L. Stellwag. (2014). Lady beetles in New York: Insidious invasions, erstwhile extirpations, and recent rediscoveries. Northeastern Naturalist. 21:271-284.
51. Hesler, L.S., J.E. Losey, L.L Allee, and R.R. Smyth. (2014). New records of Coccinellidae (Coleoptera) from Wyoming, Usa. Coleopterist Bulletin. 68:1-3.
50. Stellwag, R., and J.E. Losey. (2014). Assessment of sexual dimorphism within the genus *Coccinella* (Coleopter: Coccinellidae) in North America. Coleopterist Bulletin. 68:271-281.

49. Hoki, E., J.E. Losey, and T. Ugine. (2014). Comparing the consumptive and non-consumptive effects of a native and introduced lady beetle on pea aphids (*Acyrtosiphon pisum*). *Biological Control*. 70:78-84.
48. Smyth, R., J.E. Losey, and L. Allee. (2013). The status of *Coccinella undecimpunctata* (L.) (Coleopter: Coccinellidae) in North America: An updated distribution and new method of assessment. *The Coleopterist Bulletin*. 67:532-535.
47. Stephens, E.J., J.E. Losey, L. Allee, A. DiTommaso, C. Bodner, and A. Breyre. (2012). The impact of Cry 3Bb1 *Bt*-maize on two guilds of beneficial beetles. *Agriculture, Ecosystems, and Environment*. 156:72-81.
46. Ramsey, S., and J. Losey. (2012). Why is *Harmonia axyridis* the culprit in coccinellid biting incidents? An analysis of means, motive and opportunity. *American Entomologist*. 58:166-170.
45. Hesler, L.S., G. McNickle, M.A. Catangui, J.E. Losey, E.A. Beckendorf, L. Stellwag, D.M. Brandt, and P.B. Bartlett. (2012). Method for Continuously Rearing *Coccinella* Lady Beetles (Coleoptera: Coccinellidae). *Open Entomology Journal*. 6:42-48.
44. Gardiner, M., L. Allee, P. Brown, J. Losey, H. Roy, and R. Smyth. (2012). Lessons from lady beetles: Accuracy of monitoring data from US and UK citizen science programs. *Frontiers in Ecology and the Environment*. 10:471-476.
43. Losey, J.E., L. Allee, and R. Smyth. (2012). The Lost Ladybug Project: Citizen spotting surpasses scientist's surveys. *American Entomologist*. 58:22-24.
42. Losey, J., J. Perlman, J. Kopco, S. Ramsey, L. Hesler, E. Evans, L. Allee, and R. Smyth. (2012). Potential causes and consequences of decreased body size in field populations of *Coccinella novemnotata*. *Biological Control*. 61:98-103. (*published in advance online in 2011*)
41. Finkbeiner, S.D., R.D. Reed, R. Dirig, and J. E. Losey. 2011. The role of environmental factors in the Northeastern range expansion *Papilio cresphontes* Cramer (Papilionidae). *Journal of the Lepidopterist Society* 65:119-125.
40. Hesler, L.S., K. Fothergill, K.V. Tindall, and J. E. Losey. 2010. Novel elytral-color forms of *Coccinella septempunctata* (Coleoptera: Coccinellidae) in North America. *Proc. Ent. Soc. Wash.* 112:500-507.
39. Denmark, E., and J.E. Losey. 2010. Causes and consequences of ladybug washups in the Fingerlakes region of New York State (Coleoptera: Coccinellidae). *Entomologica Americana*. 116:78-88.
38. Fothergill, K. W. Moore, J. Losey, L. L. Allee and R. R. Smyth. 2010. First

- Arizona records of the multicolored Asian lady beetle, *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae). *The Coleopterists Bulletin*. 64 (1): 51-52.
37. Caillaud M.C. and J.E. Losey. 2010. Genetics of color polymorphism in the pea aphid, *Acyrtosiphon pisum*. *Journal of Insect Science* 10:95, available online: insectscience.org/10.95 (Open source; no hard copy).
 36. Hesler, L.S., M.A. Cantangui, J.E. Losey, J. B. Helbig and A. Mesman. 2009. Recent records of *Adalia bipunctata* (L.), *Coccinella transversoguttata* Richardsoni Brown, and *Coccinella novemnotata* Herbst (Coleoptera: Coccinellidae) from South Dakota and Nebraska. *The Coleopterists Bulletin*, 63(4):475–484. 2009.
 35. Losey, J. and M. Vaughan. 2008. Conserving the ecological services provided by insects. *American Entomologist* 54: 113-115.
 34. Vaughan, M., F. Kuehn, J. Losey, and S. Black. 2008. Conservation of Insects. *American Entomologist* 54: 96-97.
 33. Shuler, R.E., A. DiTommaso, J.E. Losey, and C.L. Mohler. 2008. Postdispersal weed seed predation is affected by experimental substrate. *Weed Science* 56: 889-895.
 32. Losey, J.E., J.E. Perlman, and R. Hoebeke. 2007. Citizen scientist rediscovers rare nine-spotted lady beetle, *Coccinella novemnotata*, in eastern North America. *Journal of Insect Conservation*. 11:415-417.
 31. Fuchsberg, J.R., T.-H. Yong, J.E. Losey, M.E. Carter, and M.P. Hoffmann. 2007. Evaluation of corn leaf aphid (*Rhopalosiphum maidis*; Homoptera: Aphididae) honeydew as a food source for the egg parasitoid *Trichogramma ostrinia* (Hymenoptera: Trichogrammatidae). *Biological Control* 40(2): 230-236.
 30. Hayden, V.R., J.M. Duxbury, A. DiTommaso, and J.E. Losey. 2007. Weed Community Dynamics in the System of Rice Intensification (SRI) and the Efficacy of Mechanical Cultivation and Competitive Rice Cultivars for Weed Control in Indonesia. *Journal of Sustainable Agriculture* 30:5-26.
 29. Harmon, J. E., J. Stephens, and J. Losey. 2007. The decline of native coccinellids (Coleoptera: Coccinellidae) in the United States and Canada. *Journal of Insect Conservation*. 11:85-84.
 28. Hoffmann, M. P., S. A. Pitcher, S. A. Cheever, J. E. Losey, T. P. Kuhar; C. A. Laub, and R. R. Youngman. 2006. Efficacy of inoculative releases of *Trichogramma ostrinia* (Hymenoptera: Trichogrammatidae) against European corn borer *Ostrinia nubilalis* (Lepidoptera: Crambidae) in field corn. *Biological Control* 36: 345-349.

27. Losey, J.E., and M. Vaughan. 2006. The economic value of ecological services provided by insects. *BioScience* 56:311-323.

OTHER PUBLICATIONS

J. Losey. 2007. *The worm turns. A review of: Invertebrate Conservation and Agricultural Ecosystems.* T. R. New. Cambridge University Press (2005).

Harmon, J.P., E. Stephens, and J. Losey. 2007. The Decline of Native Coccinellids (Coleoptera: Coccinellidae) in the United States and Canada. pgs. 85-94. In: *Beetle Conservation.* T.R. New Ed.

GRANTS PENDING

National Science Foundation - Division Of Integrative Organismal Systems. \$809,938. Sterol cycling, from plant sterols to predator spermatogenesis (Losey, J., Ugine, T., Grebenok, R.)

GRANTS RECEIVED

Summary: Over \$4 million in funding support in PI or co-PI projects since 2003.

- [amount to Losey - compiled from OSP portal]

National Science Foundation – ISE. 2011-2015. \$2,491,912 [\$2,260,078]. Broad implementation of the lost ladybug project: Integrating new places and new faces into a national lifelong learning opportunity (Losey, J., L. Hesler, and K. Tilmon)

USDA – NEIPM. 2011-2012. \$19,923 [\$400]. Native pollinators of eastern apple orchards and how to conserve them. (Losey, J, A. Agnello, B. Danforth, D. Biddinger and E. Rajotte)

- *PI Role:* Although I was the PI on this grant and had primary responsibility, the majority of proposal development and project implementation was carried out by Mia Park, a graduate student co-advised by Bryan Danforth and myself. The other co-PIs and I played an advisory role

National Science Foundation – ISE. 2008-2012. \$1,983,354 [\$1,361,145]. Have you spotted me: Learning Lessons by Looking for Ladybugs (Losey, J., L. Allee, L. Hesler, M. Catangui, and J. Pickering)

GRANTS APPLIED FOR BUT NOT RECEIVED:

*Unfunded proposals within the last 5 years

American Agriculturalist Foundation. 2015-2018. \$490,272. Developing Agricultural Leadership through Participation in Agricultural Resource Conservation (Losey). This proposal was chosen in an internal competition to represent Cornell for this RFP.

USDA-BRAP. 2014. \$1,000,000. Developing and Testing Tools for Assessing Risks of Environmental Impacts of Genetically Engineered Crops at Landscape and Larger Scales (Woodbury et al.)

National Science Foundation - Division of Integrative Organismal Systems. 2014. (pre-proposal) Discovery of obligate omnivory in coccinellids as a prerequisite for fitness.

TEACHING OVERVIEW (30%FTE)

My teaching efforts focus on integrated pest management (IPM) and insect conservation biology. I see these two areas as logical complements to one another. Many of the same ecological principles and models are utilized in conservation biology and IPM - the main difference being the goals of the two endeavors. The IPM courses I teach deal primarily with the suppression of insect pest populations while the insect conservation biology course focuses on the preservation and facilitation of rare or endangered populations.

Courses Taught

Semester	Course Number	Course Title	Credits	Enrollment
SP 06	344	Insect Conservation Biology	3	22
SP 07	201	Alien Empire	3	45
FA 07	444	Integrated Pest Management	4	23
SP 08	344	Insect Conservation Biology	3	19
FA 08	444	Integrated Pest Management	4	22
FA 09	444	Integrated Pest Management	4	21
SP 10	344	Insect Conservation Biology	3	20
FA 10	444	Integrated Pest Management	4	17
SP 12	444	Integrated Pest Management	4	62
SP 13	444	Integrated Pest Management	4	40

FA 13	344	Insect Conservation Biology	3	17
SP 14	444	Integrated Pest Management	4	40
SP 15	444	Integrated Pest Management	4	40
FA 15	344	Insect Conservation Biology	3	13
SP 16	444	Integrated Pest Management	4	40

Advising Responsibilities

I have advised between 3 and 10 undergraduate students each year since 1999. My advisees have included students from entomology, agricultural sciences biology & society. I was also the Undergraduate Advising Coordinator for the entomology department from 2006 to 2009 and the Director of Graduate Studies from 2009-2011.

Undergraduate advising currently

Current

Student	Major
Alexander, Lizetta	Biology and Society
Alvencar, Sujay	Biology and Society
Cetrullo, Sydney	Biology and Society
Denbow, Carson	Biology and Society
Fahey, Alexandria	Biology and Society
Farooq, Mohammad	Biology and Society
Gagliardi, Alexia	Biology and Society
Mercurius, Yolanda	Biology and Society
Murphy, Katie	Biology and Society
Pritts, Kevin	Entomology
Smith, Alexandra	Biology and Society
Wiedemer, Jacob	Entomology
Zhou, Emily	Biology and Society

Graduate advising

(current students – minor)

Connor Youngerman (SIPS)

(completed students – major)

Mia Park (successfully defended on 6/19/14)

Leonard Stellwag

Evan Hoki
Rakim Turnipseed (2013, MS)
Gerod Hall (2007, co-advised with Alison Power)
Erin Stephens (2002, MS), (2007, PhD)
(*completed students – minor*)
Danielle Brandt – (2012 - South Dakota State, MS)
Sam Flaxman (2006)
Gabor Neumann (2007)
Megan O'Rourke (2010)
Jonathon Landsman (2010)

SUMMARY OF EXTENSION AND OUTREACH ACTIVITIES (10% FTE)

Outreach Activities

In response to our own findings on the impact of agricultural practices on beneficial insects, their overall decline, and the lack of public appreciation of the importance of these we expanded our Lost Ladybug Project in 2008. In May 2008, the Lost Ladybug Project was awarded almost two million dollars from the National Science Foundation to expand this program in New York and then extend it to a national level. Our goals are to educate youth regarding the importance of biodiversity and conservation and to recruit them to participate in our "citizen science" program to determine the current status of native and exotic ladybugs in the US. Participants can make use of our educational materials and activities and then collect ladybugs in a defined area, take pictures of the ladybugs with digital cameras, and upload the pictures using a web-based interface for species identification and inclusion in a nationwide database. As "citizen scientists", children and adults will be part of a real scientific experiment and contribute valuable information on these important beneficial insects. In 2009, our second fully funded year, we had *over 10,000 participants* and we have educated *over 100,000 visitors* to our webpage. In addition to numerous live presentations the project was featured on National Public Radio and in several AP articles that were carried in hundreds of newspapers around the country. We have so far received *over 26,000 identifiable ladybug images* including multiple images of the three rarest native species. This represents more records of those rare species than has been reported in refereed journals for over 20 years.

2009 Outreach Summary for The Lost Ladybug Project (NY Group) as an exemplar:

- 180+ Newspaper and Magazine articles
- 5 Radio
- 1 Television & Internet interviews
- 31 Outreach Events (display tables poster, books, live ladybugs, ladybug games, ladybug collecting surveys)
- 15 Presentations
- 8 Youth educator & teacher training workshops
- 28 Other Internet Sources- Blogs
- 12 Laboratory, ladybug colony tours, receiving ladybugs from public.

Presentations (* = invited presentation; † = international conference; first listing = presenter)

†DiTommaso, A., and J.E. Losey. 2014. What's a weed worth?: Integrating the full costs and benefits into control decision-making for common milkweed (*Asclepias syriaca* L.). Joint Annual Meeting of the Weed Science Society of America and Canadian Weed Science Society. Vancouver, Canada.

Losey J., L.S. Hesler, J. Lai, K. Fothergill, L.M. Diepenbrock, K.V. Tindall, and D.L. Finke. 2013. Competition, compression and exclusion: Impact of palearctic coccinellids on nearctic natives. Entomological Society of America annual meeting, Austin, TX.

Ugine, T., and J. Losey. 2013. Why coccinellids eat plants: Omnivory enhances virility. Entomological Society of America annual meeting, Austin, TX.

Stellwag, L., and J. Losey. 2013. Allopatric versus sympatric interspecific mating in coccinellids: Familiarity breeds contempt. Entomological Society of America annual meeting, Austin, TX.

Hoki, E., T. Ugine, and J. Losey. 2013. Consumptive and non-consumptive effects on pea aphids, *Anthrosiphon pisum*, by native and invasive lady beetles. Entomological Society of America annual meeting, Austin, TX.

Park, M.G., R. Raguso, J.E. Losey, B.N. Danforth. 2013. Effectiveness and importance of wild bees for apple pollination. Entomological Society of America annual meeting, Austin, TX.

Allee, L., J. Losey, R.R. Smyth, and L.S. Hesler. 2013. Native coccinellid range changes based on citizen scientist spotter submissions to the Lost Ladybug Project. Entomological Society of America annual meeting, Austin, TX.

Smyth, R.R., J. Losey, L. Allee, and L.S. Hesler. 2013. Introduced coccinellid range changes based on citizen scientist spotter submissions to the Lost Ladybug Project. Entomological Society of America annual meeting, Austin, TX.

*Losey, J. 2013. What's a weed worth?: Integrating full costs and benefits into control decision-making for milkweed. *Invited presentation in*: Department of Crop and Soil Sciences, Cornell University: Seminar Series.

*Losey, J., and A. DiTommaso. 2013. Linking control and conservation: Integrating ecosystem services into IPM decision-making. *Invited presentation in symposium*: Assessing the Value of Diversity in Agroecosystems. Entomological Society of America: Eastern Branch meeting, Lancaster, PA.

†*Losey, J.E., L. Stellwag, and T. Ugine. 2013. Lady beetle distribution in North America: The role of reproduction in invasion and exclusion. *Invited*

presentation in: 13th International Congress of Invertebrate Reproduction and Development, Detroit, MI.

†Stellwag, L. and J.E. Losey. 2012. The mating behavior of three congeneric coccinellids, *Coccinella novemnotata*, *C. septempunctata* and *C. transversoguttata*: is hybridization possible? International Society for Behavioral Ecology, Lund, Sweden.

*L. L. Allee, R. Smyth, J. Losey, M. Gardiner, P. Brown, H. Roy. 2012. Comparisons of ladybug data from US and UK citizen science programs and from scientific surveys. Public Participation in Science and Research Conference. Ecological Society of America Annual Meeting. Seattle, WA.

*Losey, J.E., L. Allee, R. Smyth, J. Kopco and J. Lai. 2011. Discoveries from the lost ladybug project facilitated by citizen scientists. Entomological Society of America Annual meeting, Reno, NV.

Stellwag, L. and J.E. Losey. 2011. The mating behavior of two congeneric coccinellids, *Coccinella novemnotata* and *Coccinella septempunctata*: is hybridization possible?. Entomological Society of America Annual meeting, Reno, NV.

Allee, L., J.E. Losey, and R. Smyth. 2011. The Lost Ladybug Project. Entomological Society of America Annual meeting, Reno, NV.

Losey, J.E., L. Allee, R. Smyth, and L. Stellwag. 2010. Competition between a native (*Coccinella novemnotata*) and introduced (*C. septempunctata*) coccinellid: Impact on prey population growth and predator fitness. Entomological Society of America Annual meeting, San Diego, CA.

Allee, L., R. Smyth, and J.E. Losey. 2010. The Lost Ladybug Project. Entomological Society of America Annual meeting, San Diego, CA.

Fothergill, K., K.V. Tindall, J.E. Losey, and R. Smyth. 2010. Distribution of lady beetles in Missouri. Entomological Society of America Annual meeting, San Diego, CA.

Stellwag, L. and J.E. Losey. 2010. Separating the sexes: Sexual dimorphism in the genus *Coccinella* and the implications for conservation research. Entomological Society of America Annual meeting, San Diego, CA.

Park, M. and J.E. Losey. 2010. Per-visit effectiveness of native bees in apple pollination. Entomological Society of America Annual meeting, San Diego, CA. (*Winner of Presidents Prize in Student Paper Competition*)

Ramsey, D.R. and J.E. Losey. 2010. Biting behavior of beneficial beetles: Quantification of coccinellids. Entomological Society of America Annual meeting, San Diego, CA. (*Winner of Presidents Prize in Student Paper Competition*)

- *Losey, J.E. 2010. The Lost Ladybug Project: Integrating Research and Outreach. Jugatae Seminar Series. October 25, 2010.
- *Losey, J.E. 2010. Ladybugs. *In: The Wild Wild World series.* American Museum of Natural History. New York, NY.
- *Losey, J.E. L. Allee, and R. Smyth. 2009. The Lost Ladybug Project. Educators Professional Development Day workshop session. Ithaca, NY.
- *Losey, J.E. 2009. Why should scientists get involved in informal science education? Presentation on panel for: What science do people ACTUALLY learn in informal environments? Boyce Thompson Institute. Cornell University, Ithaca, NY.
- *Losey, J.E. 2009. The economic value of insect services with a spot-light on ladybeetle. CALS Distinguished Seminar Series in Sustainable Pest Management. Department of Entomology, University of Wisconsin, Madison, WI.
- Losey, J.E. L. Allee, and R. Smyth. 2009. The Lost Ladybug Project. Entomological Society of America Annual meeting, Indianapolis, IN.
- Losey, J. E. 2008. Shifting coccinellid composition and its impacts on aphid populations. Aphid Day: Cornell and Boyce Thompson Institute, Boyce Thompson Institute.
- *Losey, J. E. 2008. Pollinator Conference: Information for Action. Cross-pollination: Integrating Pollinator and Natural Enemy Conservation. USFWS, Amherst, MA.
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