

2016 Curriculum vitae



NAME: Brian A. Nault
DEPARTMENT/UNIT: Entomology
TITLE: Professor
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PROFESSIONAL EXPERIENCE

Year	Experience
2013 – present	<u>Professor</u> , Department of Entomology, Cornell University, New York State Agricultural Experiment Station, Geneva.
2007 - 2013	<u>Associate Professor</u> , Department of Entomology, Cornell University, New York State Agricultural Experiment Station, Geneva.
2001 - 2007	<u>Assistant Professor</u> , Department of Entomology, Cornell University, New York State Agricultural Experiment Station, Geneva.
1997 - 2001	<u>Assistant Professor</u> , Department of Entomology, Virginia Polytechnic Institute & State University, Eastern Shore Agricultural Research and Extension Center, Painter.
1995 - 1997	<u>Postdoctoral Research Associate</u> , Department of Entomology, North Carolina State University, Raleigh.
1990 - 1994	<u>Graduate Research Assistant</u> , Department of Entomology, North Carolina State University, Raleigh.
1988 - 1990	<u>Graduate Research Assistant</u> , Department of Entomology, University of Georgia, Athens.

EDUCATION

Year	Degree	Major	Institution
1994	Ph. D.	Entomology	North Carolina State University
1990	M.S.	Entomology	University of Georgia
1988	B. S.	Entomology	The Ohio State University

PRIMARY DEPARTMENTAL PROGRAM AREA

Landscape Ecology and Vegetable Entomology

AREAS OF EXPERTISE

Insect ecology; vegetable insect pest management; epidemiology and management of insect-transmitted viruses; insect dispersal; insecticide resistance management

FORMAL RESPONSIBILITIES

- Research **60%**
- Extension **35%** (40% from 2001-2006; 35% from 2010-current)
- Teaching **5%** (0% from 2001-2006; 5% from 2007-current)

HONORS AND AWARDS

- 2012 Excellence in IPM Award presented by the New York State Integrated Pest Management Program.
- 2003 Exceptional Service Award as Eastern Branch Representative to the Governing Board, Entomological Society of America (2001-2003). Membership is 6,000.
- 1994 John Henry Comstock Award for the most outstanding graduate student in the Southeastern Branch of the Entomological Society of America.
- 1993 First Place in the Student Display Competition (Section F) at the Entomological Society of America Annual Meeting, Indianapolis, IN.
- 1992 Honorable Mention (2nd place) in the Student Display Competition (Section F) at the Entomological Society of America Annual Meeting, Baltimore, MD.
- 1992 Selected by the Department of Entomology at North Carolina State University as a representative to attend the Annual Graduate Student Professional Development Workshop in the College of Agriculture and Life Sciences, October 11 - 13.
- 1991 Honorable Mention (2nd place) in the Student Paper Competition (Section F) at the Entomological Society of America Annual Meeting, Reno, NV.
- 1990 H. O. Lund Outstanding M.S. Student Award in the Department of Entomology, University of Georgia.
- 1990 C. M. Beckham Student Award for the best presentation in the Student Paper Session at the Georgia Entomological Society, Annual Meeting, Helen, GA.

GRANT SUPPORT

- **Summary of Funding (indirect + direct costs) as Principal and Co-Principal Investigator and Industry-Sponsored Funds (updated through December 31, 2015):**

<u>Institution</u>	<u>PI</u>	<u>Co-PI</u>	<u>Industry</u>	
<u>Total</u>				
Virginia Tech	\$ 64,374	\$ 103,347	\$ 82,900	\$
				250,621
Cornell	\$1,781,821	\$1,522,555	\$730,260	
	\$4,034,636			
<u>Total for Career</u>	<u>\$1,846,195</u>	<u>\$1,625,902</u>	<u>\$813,160</u>	
	<u>\$4,285,257</u>			

TOTAL AMOUNT GENERATED IN 2015: \$497,221

GRANTS (ORGANIZED BY GRANTING PROGRAM; GRANTS SINCE 2001)

USDA/NIFA AFRI Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative Program. 2015. Summer research and extension internships for undergraduates at Cornell University's New York State Agricultural Experiment Station. C. Smart (PI), B. Nault and L. Smart. \$266,895 (3 years).

USDA/NIFA AFRI Exploratory Program, 2014. K. Wickings (PI), C. Linn, and B. Nault. Plants, Microbes And Chemical Signals Involved In Belowground Insect Herbivory: Who's sending the message? \$100,000 (1 year).

USDA/NIFA Specialty Crops Research Initiative, 2012. P. Mitchell (PI), Colquhoun, J., Hutchison, W., Nault, B., Nowak, P., Waters, T., Wohleb, C., Bland, W., Bussan, A. J., Dillard, H. R., Gevens, A., and Groves, R. 2012. Building market foundations for sustainable vegetable production and processing: A consumer and metrics-based approach. \$2,144,836 (4 years); Nault's portion \$164,461 (3.25 years).

USDA/NIFA Specialty Crops Research Initiative, 2010. J. Van Kirk and H. Schwartz (PIs), B. Nault et al. "ipmPIPE & innovative disease diagnostic tools for onion growers". \$2,300,000; Nault's portion as a collaborator \$86,538 (3 yrs).

USDA/CSREES Pest Management Alternatives Program, 2009. B. Nault (PI) and S. Reiners. "Integrating reduced fertility and selective insecticides to advance onion thrips management in onion". \$228,491 (2 yrs).

USDA/CSREES Pest Management Alternatives Program, 2005. B. Nault (PI), R. Straub, J. Nyrop and E. Grafius. "Alternative management strategies for onion maggot in onion and a guideline for implementation". \$208,607 (2 yrs).

- USDA/CSREES Pest Management Alternatives Program, 2004. A. Shelton (PI), B. Nault and A. Landers. “Development and implementation of a reduced-risk management program for onion thrips in onions”. \$185,607 (2 yrs).
- USDA/CSREES Pest Management Alternatives Program, 2001. A. Shelton (PI), S. Reiners and B. Nault. “Insect management in cabbage through the use of a novel trap crop”. \$134,004 (2 yrs).
- USDA/CSREES – HATCH, 2013. B. Nault (PI). Advancing management of *Iris yellow spot virus* and its vector in onion. 0% (5 yrs).
- USDA/CSREES – HATCH, 2007. B. Nault (PI). Managing insect pests and insect-transmitted diseases plus conserving native pollinators to improve vegetable crop production in New York. \$22,500 (5 yrs).
- USDA/CSREES – HATCH, 2001. B. Nault (PI). Landscape ecology and management of principal arthropod pests of vegetable crops. \$35,000 (5 yrs).
- Federal Capacity Funds Initiative Program, 2015. B. Nault (PI) and J. Scott. Mitigating insecticide resistance in onion thrips populations.... \$90,000 (3 yrs).
- Federal Capacity Funds Initiative Program, 2015. A. Seaman (PI), C. Smart and B. Nault. Testing the efficacy of organically approved insecticides... \$88,584 (3 yrs).
- Federal Capacity Funds Initiative Program, 2015. B. Nault (PI) and S. McArt. Impacts of landscape and farming practices on bumble bee colony health and success. \$90,000 (3 yrs).
- Federal Formula Funds Initiative Program, 2012. B. Nault (PI). Role of local and landscape features on bumble bee foraging in pumpkin fields and impact on yield. \$60,000 (2 yrs).
- Federal Formula Funds Initiative Program, 2011. B. Nault (PI), E. Shields and M. Fuchs. Understanding onion thrips dispersal and implications for managing insecticide resistance and *Iris yellow spot virus*. \$90,000 (3 yrs).
- Federal Formula Funds Initiative Program, 2010. B. Nault (PI), M. Fuchs and A. Shelton. Reducing *Iris yellow spot virus* and promoting biological control of onion thrips in onion. \$51,000 (3 yrs).
- Federal Formula Funds Initiative Program, 2007. B. Nault (PI) and A. Taylor. Improving cucurbit production in New York through better insect control and pollination. \$60,000 (3 yrs).
- Federal Formula Funds Initiative Program, 2007. M. Fuchs (PI), B. Nault and A. Shelton. Assessing the susceptibility of onion cultivars in New York to Iris Yellow Spot Virus and onion thrips. \$60,000 (3 yrs).
- Federal Formula Funds Initiative Program, 2004. C. Smart (PI) and B. Nault. Utility of plant growth-promoting rhizobacteria for pest control and yield enhancement in vegetables. \$60,000 (3 yrs).

Federal Formula Funds Initiative Program, 2002. B. Nault (PI) and A. Taylor. Seed maggot management in vegetable crops through emerging seed treatment technology. \$20,000 (3 yrs).

Federal Formula Funds Initiative Program, 2002. A. Shelton (PI) and B. Nault. Monitoring for resistance to carbamate and organophosphate insecticides in onion thrips in onions. \$24,000 (3 yrs).

National Science Foundation Center for IPM, 2002. B. Nault (PI), A. Shelton and J. Nyrop. Designing and deploying trap crops for diamondback moth. \$56,000 (3 yrs).

New York State Agriculture & Markets Specialty Crops Block Grant, 2014. B. Nault (PI) and S. Reiners. Enhancing the competitiveness of New York's onion industry with an integrated pest management program for thrips. \$100,000 (2 yrs).

New York State Agriculture & Markets Specialty Crops Block Grant, 2012. B. Nault (PI) and S. Reiners. Increasing the production value of vine crops in New York State. \$55,000 (1 yr).

New York State Agriculture & Markets Specialty Crops Block Grant, 2010. B. Nault (PI) and S. Reiners. Increasing the production and profitability of fresh-market vegetable crops using bumble bees. \$100,000 (2 yrs).

New York Farm Viability Institute, 2015. B. Nault (PI). Fostering Adoption of the Cornell Onion Thrips Management Program and Gauging its Success. \$39,326.

New York Farm Viability Institute, 2010. B. Nault (PI) and C. Hoepting. Improving pest management by optimizing nitrogen inputs and novel insecticides in fresh market onions. \$36,257 (1 yr)

New York Farm Viability Institute, 2007. A. Shelton (PI), M. Fuchs, B. Nault and C. Hoepting. Ensuring profitability in New York onions by managing onion thrips and Iris Yellow Spot Virus. \$125,000 (2 yrs)

New York Farm Viability Institute, 2006. B. Nault (PI), D. Shah and A. Taylor. Reducing risk of yield loss by cucumber mosaic in snap bean. \$50,000 (2 yrs).

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2015. B. Nault (PI) and C. Hoepting. Evaluating novel tools, delivery techniques and application strategies for managing onion insect pests. \$21,000. (1 yr).

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2014. B. Nault (PI) and C. Hoepting. Evaluating novel tools, delivery techniques and application strategies for managing onion insect pests. \$14,543 (1 yr).

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2013. B. Nault (PI) and C. Hoepting. Evaluating novel insecticides and delivery systems for onion insect pest management. \$12,000 (1 yr).

- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2012. B. Nault (PI) and C. Hoepting. Novel insecticides and uses for onion insect pest management. \$12,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2011. B. Nault (PI), A. Shelton and C. Hsu. Managing onion thrips with insecticides. \$12,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2010. B. Nault (PI), A. Shelton and M. Fuchs. “Advancing onion thrips management in onion fields”. \$15,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2009. B. Nault (PI), A. Shelton and M. Fuchs. “Onion thrips management: A critical element for producing a healthy and profitable crop”. \$25,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2008. B. Nault (PI), A. Shelton and M. Fuchs. “Managing onion thrips and *Iris yellow spot virus*”. \$40,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2007. B. Nault (PI), A. Shelton, M. Fuchs, E. Larentzaki and C. Hsu. “Managing onion thrips and *Iris yellow spot virus*”. \$35,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2007. A. Taylor (PI), B. Nault, J. Lorbeer, P. Jentsch, C. Hoepting, and M.R. McDonald. “Onion seed treatments and coatings for efficient early season pest management”. \$19,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2006. B. Nault (PI) and C. Hoepting. “Protecting onion transplants from onion maggot and onion thrips”. \$6,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2005. A. Shelton (PI), B. Nault, E. Larentzaki and J. Zhao. “Developing an onion thrips management strategy”. \$45,000 (2 yrs).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2004. B. Nault (PI), R. Straub and A. Taylor. “Seed treatments for managing arthropod pests of onion”. \$28,000 (3 yrs).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2004. B. Nault (PI) and J. Nyrop. “Insecticide bait to control onion maggot flies”. \$5,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2003. B. Nault (PI), A. Shelton, R. Straub and A. Taylor. “Novel tools and approaches for managing onion thrips, onion maggot and seed maggot”. \$25,000 (1 yr).

- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2002. B. Nault (PI), R. Straub, A. Taylor, and A. Shelton. "Ecology and management of onion arthropods". \$6,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2001. R. Straub (PI), A. Taylor, B. Nault and A. Shelton. "Biology and management of onion arthropods". \$26,000 (1 yr).
- New York State Department of Agriculture and Markets (Onion Research and Development Program), 2001. B. Nault (PI) and R. Straub. "Occurrence and management of seed maggots in New York onion". \$5,000 (1 yr).
- New York State Vegetable Research Association/Council, 2015. B. Nault (PI). Cropping practices and landscape factors associated with European corn borer populations: Implications for improving management in sweet corn and snap bean. \$16,000.
- New York State Vegetable Research Association/Council, 2014. B. Nault (PI) and A. Huseth. "Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean". \$18,000.
- New York State Vegetable Research Association/Council, 2013. B. Nault (PI). "Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean". \$6,000.
- New York State Vegetable Research Association/Council, 2012. B. Nault (PI). "Evaluating the performance of anthranilic diamides for European corn borer management of snap bean". \$11,000. (1 yr).
- New York State Vegetable Research Association/Council, 2011. B. Nault (PI). "Evaluating the performance of chlorantraniliprole for European corn borer management in snap bean". \$15,952. (1 yr).
- New York State Vegetable Research Association/Council, 2010. B. Nault (PI). "Novel insecticides delivered using multiple approaches to control European corn borer and other pests in snap bean". \$15,000. (1 yr).
- New York State Vegetable Research Association/Council, 2009. B. Nault (PI). "Novel insecticides delivered using multiple approaches to control European corn borer". \$15,000. (1 yr).
- New York State Vegetable Research Association/Council, 2007. B. Nault (PI). "Identifying factors associated with European Corn Borer infestations in snap bean fields and optimizing control using insecticides". \$15,000. (1 yr).
- New York State Vegetable Research Association/Council, 2007. A. Taylor (PI) and B. Nault. "Snap bean viruses: Incidence and impact on yield". \$12,532. (1 yr).
- New York State Vegetable Research Association/Council, 2006. B. Nault (PI). "Identifying factors associated with European corn borer infestations in snap bean fields and optimizing control using insecticides". \$10,000. (1 yr).
- New York State Vegetable Research Association/Council, 2005. A. Taylor (PI), B. Nault and G. Abawi. "Cross commodity seed treatment investigations for snap bean insects and table beet diseases". \$11,000 (1 yr).

- New York State Vegetable Research Association/Council, 2004. B. Nault (PI) and D. Shah. "Predicting periods of aphid vector dispersal and cucumber mosaic virus infection in snap bean fields". \$22,000 (2 yrs).
- New York State Vegetable Research Association/Council, 2004. A. Taylor (PI), S. Reiners and B. Nault. "Snap bean viruses: incidence and impact on yield". \$15,000 (2 yrs).
- New York State Vegetable Research Association/Council, 2004. B. Nault (PI) and A. McFaul. "Seed treatments for controlling insect pests of snap bean and sweet corn". \$6,500 (1 yr).
- New York State Vegetable Research Association/Council / Council, 2003. B. Nault (PI), D. Shah and A. McFaul. "Quantifying the temporal dynamics of aphid movement and virus spread in snap bean fields". \$14,000 (1 yr).
- New York State Vegetable Research Association/Council, 2003. A. Taylor (PI) and B. Nault. "Cross-commodity seed treatments for seed maggot". \$4,000 (1 yr).
- New York State Vegetable Research Association/Council, 2002. B. Nault (PI), H. Dillard, A. McFaul and C. Hoeping. "Seasonal patterns of aphid movement and epidemiology of viruses in snap bean fields". \$13,000 (1 yr).
- New York State Vegetable Research Association/Council, 2002. A. Taylor (PI), B. Nault, H. Dillard, D. Shah, S. Reiners, A. McFaul and C. Hoeping. "Cornell bean/aphid/virus multi-disciplinary study: seed treatment and foliar investigation". \$10,000 (1 yr).
- New York State Integrated Pest Management Program, 2009. B. Nault (PI). "Reducing onion thrips populations in onion by optimizing nitrogen levels at planting". \$5,000 (1 yr).
- New York State Integrated Pest Management Program, 2006. B. Nault (PI), R. Straub and J. Nyrop. "Developing a biocompatible management strategy for onion maggot flies". \$7,000 (1 yr).
- New York State Integrated Pest Management Program, 2003. A. Shelton (PI) and B. Nault. "Implementation of an insecticide resistance management strategy for onion thrips on onions". \$6,000 (1 yr).
- New York State Integrated Pest Management Program, 2002. B. Nault (PI), R. Straub and A. Taylor. "Onion maggot and seed maggot management in onion using insecticide-treated seed". \$4,500 (1 yr).
- New York State Integrated Pest Management Program, 2002. B. Nault (PI), J. Nyrop, A. Shelton and R. Straub. "A new approach for detecting insecticide resistance in onion maggot populations". \$7,000 (2 yrs).
- New York State Dry Bean Association, 2006. B. Nault (PI). "Economics of novel and conventional insect pest management strategies for dry bean". \$3,000. (1 yr).
- IR-4 Project, 2009. A. Taylor (PI) and B. Nault. IR-4 industry supported research. \$5,000 (1 yr).

IR-4 Project, 2005. B. Nault (PI). A national agricultural program: Clearance of chemicals and biologicals for minor or special pesticides (Insecticides: onions/onion thrips). \$10,000 (1 yr).

IR-4 Project, 2005. T. Kuhar (PI) and B. Nault. Evaluation of *Metarhizium anisopliae* Strain F52-based biopesticide (Novozymes Biologicals, Inc.) for control of thrips and onion maggot on onion, and Colorado potato beetle and wireworms on potato. \$13,000 (1 yr).

Kraig Kayser Endowment, 2013. B. Nault (PI). “Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean”. \$5,097.

Industry Support, 2001-2014. B. Nault (PI). Management of insect pests of onion, potato, vine crops, snap bean, dry bean and pepper. (\$730,260 over 15 yrs; \$64,000 of which was generated in 2015).

- **Pending Grants/Contracts/Gifts**

USDA NIFA Specialty Crops Multi-State Project, 2015. C. Hooks (PI), B. Nault and others. Using a flowering clover to improve ecosystem services in cucurbits. Nault’s portion \$199,848.

PUBLICATIONS

NOTE: For each peer-reviewed publication listed below, the first author generally wrote a majority of the paper. The last author may have contributed nearly as much 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.

REFEREED JOURNAL ARTICLES

1. Jacobson, A. L., B. A. Nault, E. L. Vargo, and G. G. Kennedy. Restricted gene flow among lineages of *Thrips tabaci* supports genetic divergence among cryptic species groups. PloS ONE. (submitted June 2016).
2. *Smith, E. A., E. J. Shields, and B. A. Nault. Impact of adjacent habitat on colonization of onion fields by adult onion thrips (Thysanoptera: Thripidae). J. Appl. Entomol. (in review since June 2016).
3. *Smith, E. A., E. J. Shields, and B. A. Nault. Impact of abiotic factors on onion thrips (Thysanoptera: Thripidae) dispersal activity in an onion ecosystem. Environ. Entomol. (in review since June 2016).
4. **Schmidt-Jeffris, R., and B. A. Nault. Performance of anthranilic diamide insecticides delivered at planting or as foliar applications to manage major snap bean insect pests. Pest Manag. Sci. (in review since May 2016).
5. Perez-Alvarez, R., B. A. Nault, and K. Poveda. Effects of landscape composition on crop yield mediated by specialist herbivores. J. Appl. Ecol. (in review since May 2016).

6. **Schmidt-Jeffris, R., A. S. Huseeth, and B. A. Nault. 2016. Estimating European corn borer (Lepidoptera: Crambidae) adult activity in snap bean fields based on corn planting intensity and their activity in corn in New York agroecosystems. *J. Econ. Entomol.* (in press).
7. Olmstead, D., B. A. Nault, and A. M. Shelton. 2016. Biology, ecology and evolving management of *Helicoverpa zea* (Boddie) (Lepidoptera: Noctuidae) in sweet corn in the United States. *J. Econ. Entomol.* DOI: <http://dx.doi.org/10.1093/jee/tow125>.
8. Nault, B. A., and A. S. Huseeth. 2016. Evaluating an action-threshold based insecticide program on onion cultivars varying in resistance to onion thrips (Thysanoptera: Thripidae). *J. Econ. Entomol.* DOI: <http://dx.doi.org/10.1093/jee/tow112>.
9. Gill, H. K., H. Garg, A. K. Gill, J. L. Gillett-Kaufman, and B. A. Nault. 2015. Onion thrips (Thysanoptera: Thripidae) biology, ecology, and management in onion production systems. *J. Integ. Pest Mngmt.* 6(1): 6. DOI: 10.1093/jipm/pmv006.
10. *Smith, E. A., M. Fuchs, E. J. Shields, and B. A. Nault. 2015. Long-distance dispersal potential for onion thrips (Thysanoptera: Thripidae) and *Iris yellow spot virus* (Bunyaviridae: *Tospovirus*) in an onion ecosystem. *Environ. Entomol.* 44(4): 921-930. DOI: 10.1093/ee/nvv072.
11. **Huseeth, A. S., J. D. Petersen, K. Poveda, Z. Szendrei, B. A. Nault, G. G. Kennedy, and R. L. Groves. 2015. Spatial and temporal potato intensification drives insecticide resistance in the specialist herbivore, *Leptinotarsa decemlineata*. *PLoS ONE.* 10(6): e0127576. DOI: 10.1371/journal.pone.0127576.
12. **Huseeth, A. S., R. L. Groves, S. Chapman, and B. A. Nault. 2015. Evaluation of diamide insecticides co-applied with other agrochemicals at various times to manage *Ostrinia nubilalis* in processing snap bean. *Pest Manag. Sci.* 71(12): 1649-1656. DOI: 10.1002/ps.3973.
13. **Huseeth, A. S., R. L. Groves, S. A. Chapman, A. Alyokhin, T. P. Kuhar, I. V. MacRae, Z. Szendrei, and B. A. Nault. 2014. Managing Colorado potato beetle resistance: new tools and strategies for the next decade of pest control in potato. *J. Integ. Pest Mngmt.* 5(4): A1-A8. DOI: <http://dx.doi.org/10.1603/IPM14009>.
14. Schwartz, H. F., D. Alston, J. Alwang, M. Bartolo, T. Blunt, C. O. Boateng, B. Bunn, C. S. Cramer, W. Cranshaw, J. Davidson, M. Derie, J. Doran, K. Douce, D. Drost, L. J. du Toit, J. Gao, T. Gourd, B. Gugino, B. Hammon, J. Hardin, M. Hausbeck, G. Jibilian, J. Lafferty, J. LaForest, M. S. McMillan, S. K. Mohan, J. Morrice, B. A. Nault, C. Nischwitz, G. Norton, K. Otto, H. R. Pappu, M. Petersen, R. Sampangi, B. Schroeder, W. Secor, S. Szostek, N. Tisserat, M. E. Uchanski, J. VanKirk, T. Waters, P. Wiriyajitsomboon, and C. Wohleb. 2014. Onion *ipm*PIPE: A Coordinated Effort to Improve the Management of Onion Thrips and *Iris yellow spot virus* for the U.S. Onion Industry. *Plant Health Progress* 15(4): 172-183.

15. *Fok, E. J., J. D. Petersen, and B. A. Nault. 2014. Relationships between insect predator populations and their prey, *Thrips tabaci*, in onion fields grown in large-scale and small-scale cropping systems. *BioControl* 59: 739-748.
16. Nault, B. A., W. C. Kain, and P. Wang. 2014. Seasonal changes in *Thrips tabaci* population structure in two cultivated hosts. *PLoS ONE* 9(7): e101791.
17. Bachmann, A. C., B. A. Nault and S. J. Fleischer. 2014. Alate aphid (Hemiptera: Aphididae) species composition and richness in northeastern USA snap beans and an update to historical lists. *Florida Entomol.* 97(3): 979-994.
18. **Petersen, J. D., and B. A. Nault. 2014. Landscape diversity moderates the effects of bee visitation frequency to flowers on crop production. *J. Appl. Ecol.* 51: 1347-1356.
19. **Petersen, J. D., A. S. Huseeth, and B. A. Nault. 2014. Evaluating pollination deficits in pumpkin production in New York. *Environ. Entomol.* 43(5): 1247-1253.
20. **Petersen, J. D., S. Reiners and B. A. Nault. 2013. Pollination services provided by bees in pumpkin fields supplemented with either *Apis mellifera* or *Bombus impatiens* or not supplemented. *PLoS ONE* 8(7): e69819.
21. Garibaldi, L.A., I. Steffan-Dewenter, R. Winfree, M.A. Aizen, R. Bommarco, S.A. Cunningham, C. Kremen, L.G. Carvalheiro, L.D. Harder, O. Afik, I. Bartomeus, F. Benjamin, V. Boreux, D. Cariveau, N.P. Chacoff, J.H. Dudenhöffer, B.M. Freitas, J. Ghazoul, S. Greenleaf, J. Hipólito, A. Holzschuh, B. Howlett, R. Isaacs, S.K. Javorek, C.M. Kennedy, K. Krewenka, S. Krishnan, Y. Mandelik, M.M. Mayfield, I. Motzke, T. Munyuli, B.A. Nault, M. Otieno, J. Petersen, G. Pisanty, S.G. Potts, R. Rader, T.H. Ricketts, M. Rundlöf, C.L. Seymour, C. Schüepp, H. Szentgyörgyi, H. Taki, T. Tschardtke, C.H. Vergara, B.F. Viana, T.C. Wanger, C. Westphal, N. Williams, A.M. Klein. 2013. Wild pollinators enhance fruit set of crops regardless of honey-bee abundance. *Science*. 339: 1608-1611.
22. Nault, B. A., C. Hsu and C. Hoepfing. 2013. Consequences of co-applying insecticides and fungicides for managing *Thrips tabaci* (Thysanoptera: Thripidae) on onion. *Pest Management Science*. 69: 841-849.
23. *Smith, E. A., A. DiTommaso, M. Fuchs, A. M. Shelton and B. A. Nault. 2012. Abundance of weed hosts as potential sources of onion and potato viruses in western New York. *Crop Protection* 37: 91-96.
24. Diaz-Montano, J., J. Fail, M. Deutschlander, B. A. Nault and A. M. Shelton. 2012. Characterization of resistance, evaluation of the attractiveness of plant odors, and effect of leaf color on different onion cultivars to onion thrips (Thysanoptera: Thripidae). *J. Econ. Entomol.* 105(2): 632-641.
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ABSTRACTS OF PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. Nault, B., C. Hsu, A. Shelton, M. Fuchs and C. Hoeping. 2009. Ecology of onion thrips and epidemiology of *Iris yellow spot virus*: Implications for management in New York onion fields. The Ninth International Symposium on Thysanoptera and Tospoviruses Program and Abstracts. Main Beach, Queensland, Australia. p. 27.
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TECHNICAL ARTICLES II: PROCEEDINGS

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TECHNICAL ARTICLES III: NON-REFEREED PUBLICATIONS

1. Nault, B. A., A. S. Huseeth and E. A. Smith. 2014. Onion thrips control in onion, 2013. *Arthropod Management Tests*, 2014. 39(1): E39 DOI: <http://dx.doi.org/10.4182/amt.2014.E39>
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8. Nault, B. A., and M. L. Hessney. 2008. Onion thrips control in onion, 2007. *Arthropod Management Tests*, 2008. 33: E20.
9. Nault, B. A., and M. L. Hessney. 2008. Onion thrips control in onion, 2006. *Arthropod Management Tests*, 2008. 33: E19.
10. Nault, B. A., and M. L. Hessney. 2006. Onion thrips control in onion, 2005. *Arthropod Management Tests*, 2006. 31: E39.

TECHNICAL ARTICLES IV: RESEARCH REPORTS

1. Nault, B. A. 2011. W1008 Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions final report for 2011. pp. 21.
2. Nault, B. A., and M. L. Hessney. 2009. Insect pest management research on selected vegetable crops in New York. pp. 40.
3. Nault, B. A. 2008. Developing a biocompatible management strategy for onion maggot flies. Final Project Report to the NYS IPM Program, Agricultural IPM – 2007. NYS IPM Publication No. 506. pp. 215-223.
4. Nault, B. A., and M. L. Hessney. 2008. Insect pest management research on selected vegetable crops in New York. pp. 35.
5. Nault, B. A., M. L. Hessney and K. E. Straight. 2007. Insect pest management research on selected vegetable crops in New York. pp. 33.
6. Nault, B. A., M. L. Hessney and K. E. Straight. 2006. Insect pest management research on selected vegetable crops in New York. pp. 44.

EXTENSION PUBLICATIONS

1. **Huseth, A. S. and B. A. Nault. 2014. Managing Colorado potato beetle insecticide resistance: new tools & strategies. Cornell Cooperative Extension, Cornell Vegetable Program. *Veg Edge* 10(9): 4.
2. *Smith, E. A. and B. A. Nault. 2014. Onion Maggot (*Delia antiqua* Meigen). Cornell University Department of Entomology and New York State IPM factsheet. www.nysipm.cornell.edu/factsheets/vegetables/om.pdf
3. **Petersen, J., and B. A. Nault. 2013. Is it worth supplementing pumpkin fields with bees? Cornell Cooperative Extension, Cornell Vegetable Program. *Veg Edge* 9(2): 6-7.
4. Hoeping, C. A., and B. A. Nault. 2012. New developments for managing onion maggot. Cornell Cooperative Extension of Orange County. *Muck and Mineral Dec.*: 1-5.

5. Hoepting, C. A., and B. A. Nault. 2012. New developments for managing onion maggot. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 8(28): 10-13.
6. Nault, B. A., and A. M. Shelton. 2012. Guidelines for managing onion thrips on onion. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 8(5): 14-17.
7. Nault, B. A., and A. M. Shelton. 2012. Guidelines for managing onion thrips on onion. Cornell Cooperative Extension. Cornell Cooperative Extension of Orange County. Muck & Mineral June 2012: 1-5.
8. Nault, B. A. 2012. Control of Colorado potato beetle and insecticide resistance management. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 8(3): 1-4.
9. **Petersen, J. and B. A. Nault. 2012. Can pumpkin yield be increased by supplementing fields with honey bees or bumble bees? Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 8(2): 4-5.
10. Nault, B., W. Cranshaw and D. Alston. 2011. Onion Insect Pests. Onion ipmPIPE Diagnostic Pocket Series - 2 page diagnostic card, distributed nationally): <http://www.alliumnet.com/IPMPipe.html>
11. Nault, B. A. and A. M. Shelton. 2011. Onion thrips management in onions: Considerations before you spray. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 7(5): 6-9.
12. Nault, B. A. and A. M. Shelton. 2011. Onion thrips management in onions: Information to consider before your first spray. Cornell Cooperative Extension of Orange County. Muck & Mineral April 2011: 1-5.
13. Nault, B. and A. Taylor. 2010. New insecticide seed treatments for onions, snap & dry beans, cucurbits, carrots & broccoli. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 6(12): 14.
14. Nault, B. and A. Taylor. 2010. New insecticide seed treatments for selected vegetable crops. Cornell Cooperative Extension, OrangeCounty. Muck and Mineral Nov./Dec. 1-2.
15. Nault, B. A. and J. Kikkert. 2010. Viruses in beans: Symptoms & Vectors. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 6(6): 4-5.
16. Nault, B. A. and A. M. Shelton. 2010. Battling onion thrips using insecticides. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 6(6): 15-17.
17. Nault, B. A. 2010. New insecticides for insect pest management. Cornell Cooperative Extension, Cornell Vegetable Program. Veg Edge 6(2): 14-15.
18. Seaman, A. (ed.), M. Kirkwyland, E. Graeper Thomas, G. Abawi, T. Bjorkman, A. Cobb, H. Dillard, V. Grubinger, B. Gugino, R. Hadad, J. Kikkert, M. Helms, M. McGrath, C. Mohler, B. Nault, A. Rangarajan, and T. Zitter. 2009.

Production Guide for Organic Beans for Processing. NYS IPM Publication No. 132.

19. Seaman, A. (ed.), M. Kirkwyland, E. Graeper Thomas, G. Abawi, A. Cobb, H. Dillard, V. Grubinger, B. Gugino, R. Hadad, J. Kikkert, M. Helms, M. McGrath, C. Mohler, B. Nault, A. Rangarajan, and T. Zitter. 2009. Production Guide for Organic Carrots for Processing. NYS IPM Publication No. 133.
20. Seaman, A. (ed.), M. Kirkwyland, E. Graeper Thomas, B. Caldwell, V. Grubinger, B. Gugino, R. Hadad, M. Helms, M. McGrath, C. Mohler, B. Nault, R. Pedersen, A. Rangarajan, and T. Zitter. 2009. Production Guide for Organic Cucumbers and Squash for Processing. NYS IPM Publication No. 135.
21. Seaman, A. (ed.), M. Kirkwyland, E. Graeper Thomas, G. Abawi, A. Cobb, H. Dillard, V. Grubinger, B. Gugino, R. Hadad, M. Helms, J. Kikkert, M. McGrath, C. Mohler, B. Nault, A. Rangarajan, and T. Zitter. 2009. Production Guide for Organic Peas for Processing. NYS IPM Publication No. 137.
22. Nault, B. A. and A. M. Shelton. 2009. Onion thrips management: New insecticides and timing strategies. CornellUniversity Cooperative Extension Vegetable Program. Veg Edge 5(7): 10-11.
23. Nault, B. A. and A. M. Shelton. 2008. Update: Insecticides and sequences of applications for onion thrips control. CornellUniversity Cooperative Extension Vegetable Program. Veg Edge 4(7): 6-9.
24. Nault, B. A. and A. M. Shelton. 2008. Insecticides and sequences of applications for onion thrips control in onion fields. CornellUniversity Cooperative Extension of OrangeCounty. Muck & Mineral. June 2008. pp. 1-3.
25. Nault, B. A. and A. M. Shelton. 2008. Insecticides and timing for onion thrips control. CornellUniversity Cooperative Extension Vegetable Program. Veg Edge 4(6): 12-14.
26. Nault, B. A. 2007. Product label updates for onion insect management. CornellUniversity Cooperative Extension of OrangeCounty. Muck and Mineral. December 2007.
27. Nault, B.A. 2007. Using insecticides to manage onion thrips. CornellUniversity Cooperative Extension Vegetable Program. Veg Edge 3(7): 12-14.

TRADE PUBLICATIONS

1. Nault, B. A. 2016. Medicating onions for thrips infestations: New remedies to consider. Onion World 32(3): 8-13.
2. Nault, B. A. 2015. Onion maggot and onion thrips management in onion. Onion World 31(2): 16-19.
3. **Petersen, J. D., and B.A. Nault. 2014. Landscape a factor when assessing pollination needs. Vegetable Grower News 48(3): 25-26.
4. Nault, B. A. 2014. IYSV New York flare-up: Should onion growers be concerned? Onion World 30(2): 14-21.

5. Jacobson, A. L., G. G. Kennedy, and B. A. Nault. 2014. Onion thrips population genetics and implications for management. *Onion World* 30(2): 22-25.
6. Nault, B. A., A. M. Shelton, C. L. Hsu and C. A. Hoepting. 2012. How to win the battle against onion thrips. *Onion World*. March/April 2012. pp. 14-17.
7. Nault, B. A. 2010. Thrashing thrips. *American Vegetable Grower*. November 2010. pp. 43-44.
8. Nault, B. A. 2010. Onion thrips control in New York. *Onion World*. 26(1): 12-14.
9. Nault, B. A. 2009. Cornell team looks at onion thrips and *Iris yellow spot virus* in New York. *Onion World*. 25(4): 6-8.
10. Nault, B. A., A. G. Taylor and D. Shah. 2008. Virus vectors: Understanding how cucumber mosaic virus is transmitted in snap beans may help growers reduce its incidence. *American Vegetable Grower*. December 2008. pp. 68-70.
11. Nault, B. A. 2007. Ecology and management of onion maggot. *Onion World*. 23(1): 24-27.
12. Nault, B. A. 2006. Biology and ecology of onion thrips in onion fields. *Onion World*. 22(8): 10-12.
13. Nault, B. A., A. M. Shelton, J. –Z. Zhao, and J. Plate. 2006. Don't let onion thrips resist. *American Vegetable Grower*. January 2006. pp. 26.

OTHER PUBLICATIONS

Reiners, S., B. Nault, M. McGrath, R. Bellinder, M. Helms, A. Landers and P. Curtis. 2016. The integrated crop and pest management guidelines for vegetables. Cornell Cooperative Extension. (annually updated)

PRESENTATIONS

NOTE: For each presentation listed below, the first person was the presenter. A single asterisk (*) denotes that the presenter was a student in my program, whereas a double asterisk (**) denotes that the presenter was either a Post-doctoral Associate or Research Associate in my program.

Professional Meetings (submitted presentations)

1. *Leach, A.B., S. Reiners, and B. A. Nault. 2016. Evaluating a tri-partite IPM program for onion thrips in onion. Northeastern Plant, Pest and Soils Conference/ Entomological Society of America Eastern Branch Annual Meeting. Philadelphia, PA. January 5, 2016. (*Note: Awarded Best Poster in the Graduate Student Poster Contest*).
2. **Schmidt-Jeffris, R.A., and B. A. Nault. 2016. Residual activity of new insecticides for European corn borer control in snap bean. Northeastern Plant, Pest and Soils Conference/ Entomological Society of America Eastern Branch Annual Meeting. Philadelphia, PA. January 6, 2016.

3. Nault, B. A. 2015. Onion thrips management in onion with insecticides – challenges ahead. Annual Meeting for Multi-State Project W2008: Biology and Management of *Iris yellow spot virus* (IYSV), Thrips and Other Diseases in Onions. Salt Lake City, UT. December 10, 2015.
4. **Schmidt-Jeffris, R., A. Huseeth, and B. A. Nault. 2015. Effects of prior landscape use on European corn borer populations in processing vegetables. Entomological Society of America Annual Meeting. Minneapolis, MN. November 18, 2015.
5. Perez-Alvarez, R., B. A. Nault, and K. Poveda. 2015. Effects of landscape composition on crop yield mediated by specialist herbivores. Entomological Society of America Annual Meeting. Minneapolis, MN. November 16, 2015.
6. Hoepting, C. A., S. Beer, and B. A. Nault. 2014. Update on thrips, bacteria and IYSV management research in New York. Annual Meeting for Multi-State Project W2008: Biology and Management of *Iris yellow spot virus* (IYSV) and thrips and other diseases in onions. December 6, 2014. Scottsdale, AZ.
7. Nault, B. A. 2014. Incorporating host plant resistance into an IPM program for onion thrips. National Allium Research Conference. December 5, 2014. Scottsdale, AZ.
8. Hoepting, C. A. and Nault, B. A. 2014. Cornell onion thrips management program for New York onion growers valued at one million per year. National Allium Research Conference. December 4, 2014. Scottsdale, AZ.
9. Perez-Alvarez, R., B. A. Nault, and K. Poveda. 2014. Testing the intermediate landscape complexity hypothesis for augmentative biological control. Entomological Society of America Annual Meeting. Portland, OR. November 17, 2014.
10. **Petersen, J. D., and B. A. Nault. 2014. Effects of landscape features on foraging by honey bees (*Apis mellifera*) and bumble bees (*Bombus impatiens*) in pumpkin fields. Entomological Society of America Annual Meeting. Portland, OR. November 18, 2014.
11. Justus, E., M. Fuchs, and B. Nault. 2014. Detection methods for *Iris yellow spot virus* in onion. Cornell University's New York State Agriculture Experiment Station Summer Scholars Program. Co-author, poster. July 31, 2014.
12. *Smith, E. A., E. J. Shields, M. Fuchs and B. A. Nault. 2014. Dispersal of onion thrips, *Thrips tabaci* Lindeman, in an onion ecosystem. Department of Entomology Annual Symposium, Cornell University, Ithaca, NY. January 17, 2014. (**Note: Awarded Best Talk in the Graduate Student Presentation Competition**).
13. Nault, B. A., and C. A. Hoepting. 2013. Onion thrips management in onion in New York. Annual Meeting for Multi-State Project W2008: Biology and Management of *Iris yellow spot virus* (IYSV), Thrips and Other Diseases in Onions. Denver, CO. December 12, 2013.

14. Nault, B. A. 2013. Update on novel products for vegetable insect pest management in New York. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 21, 2013.
15. *Smith, E. A., E. J. Shields, M. Fuchs and B. A. Nault. 2013. Diurnal dispersal of onion thrips, *Thrips tabaci* (Lindeman), in an onion ecosystem. Entomological Society of America Annual Meeting. Austin, TX. November 11, 2013. (**Note: Awarded President's Prize [second place] in the Graduate Student Ten-Minute Paper Competition, Plant-Insect Ecosystems-20**).
16. **Petersen, J. D., and B. A. Nault. 2013. Relative influences of the landscape and bees on crop yield. Entomological Society of America Annual Meeting. Austin, TX. November 13, 2013. Poster presentation.
17. **Petersen, J. D., and B. A. Nault. 2013. Relative influences of the landscape and bees on crop yield. Second International Conference on Pollinator Biology, Health and Policy, State College, PA. August 17, 2013. Poster presentation.
18. *Gresov, A., J. D. Petersen, and B. A. Nault. 2013. Identification of pollen collected by honey bees (*Apis mellifera*) and bumble bees (*Bombus impatiens*) in pumpkin fields. Cornell University's NYSAES Summer Research Scholars Display Session. Geneva, NY. July 31, 2013. Poster presentation.
19. *Fok, E. J., and B. A. Nault. 2012. Natural enemies of onion thrips (*Thrips tabaci*) in New York onion agroecosystems. Entomological Society of America Annual Meeting. Knoxville, TN. November 12, 2012. (**Note: Awarded President's Prize [first place] in the Graduate Student Ten-Minute Paper Competition, Plant-Insect Ecosystems-12**).
20. *Smith, E. A., E. J. Shields, M. Fuchs and B. A. Nault. 2012. Early-season patterns of onion thrips, *Thrips tabaci* (Lindeman), population densities in onion fields in New York. Entomological Society of America Annual Meeting. Knoxville, TN. November 12, 2012.
21. **Petersen, J. D. and B. A. Nault. 2012. Effects of supplementation and landscape on bumble bees in pumpkin production. 2012 Center for Pollinator Research Symposium. Pennsylvania State University. State College, PA. May 21, 2012.
22. *Fok, E. and B. A. Nault. 2012. Natural enemies of onion thrips (*Thrips tabaci*) in New York onion agroecosystems. Entomological Society of America – Eastern Branch. Hartford, CT. March 17, 2012.
23. *Smith, E. A., E. J. Shields, M. Fuchs and B. A. Nault. 2012. Early-season patterns of onion thrips, *Thrips tabaci* (Lindeman), population densities in onion fields in New York. Entomological Society of America – Eastern Branch. Hartford, CT. March 17, 2012.
24. **Hsu, C., C. Hoeping, M. Fuchs, A. M. Shelton and B. A. Nault. 2011. Changes in the spatial distribution of onion thrips (*Thrips tabaci*) and *Iris yellow spot virus* in onion fields over time. Entomological Society of America Annual Meeting, November 15, 2011. Reno, NV. Poster presentation

25. *Smith, E. A., A. DiTomasso, M. Fuchs, A. M. Shelton and B. A. Nault. 2011. Weed hosts of onion thrips (*Thrips tabaci*) and implications for *Iris yellow spot virus* epidemiology in onion. Asa Fitch Award Presentation at the Entomological Society of America – Eastern Branch Meeting. Harrisburg, PA.
26. **Hsu, C. L., and B. A. Nault. 2010. Spatial distribution of onion thrips (*Thrips tabaci*) in western New York onion fields. Entomological Society of America Annual Meeting, San Diego, CA.
27. **Artz, D. A., C. Hsu and B. A. Nault. 2010. The influence of bordering habitat on spatial aspects of bee foraging activity in commercial pumpkin fields. Entomological Society of America Annual Meeting, San Diego, CA.
28. Diaz-Montano, J., A. M. Shelton, B. Nault and J. Fail. 2010. Onion leaf color effects on attraction to onion thrips (*Thrips tabaci* Lindeman). Entomological Society of America Annual Meeting, San Diego, CA.
29. Nault, B. 2010. Developing an insecticide use strategy for thrips management in onion. Entomological Society of America Annual Meeting, San Diego, CA.
30. Nault, B., C. Hsu and C. Hoepfing. 2010. Update on onion thrips and *Iris yellow spot virus* research in New York. Annual Meeting for Multi-State Project W1008: Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions. Reno, NV.
31. **Hsu, C. L., B. A. Nault and C. A. Hoepfing. 2010. Relationships between nitrogen fertilizer levels, onion thrips (*Thrips tabaci*) populations and fresh market bulb yields in New York. National Allium Research Conference. December 9-10, 2010. Reno, NV.
32. *Smith, E., A. DiTomasso, M. Fuchs, A. Shelton and B. Nault. 2010. Weed hosts of onion thrips (*Thrips tabaci*) and implications for *Iris yellow spot virus* epidemiology in onion. National Allium Research Conference. December 9-10, 2010. Reno, NV.
33. Nault, B. A., C. L. Hsu and C. Hoepfing. 2010. Managing onion thrips with insecticides – Overcoming a multitude of challenges. National Allium Research Conference. December 9-10, 2010. Reno, NV.
34. Nault, B. A. 2010. Onion insect management. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 16, 2010.
35. Nault, B. A. 2010. Update on viruses in beans. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 18, 2010.
36. **Artz, D. A., and Nault, B. A. 2010. Current and future pollination services provided by native bees in vegetable crops. First International Conference on Pollinator Biology, Health and Policy, State College, PA. July 24-28, 2010.
37. Nault, B. A., C. Hsu, E. Smith, A. Shelton, M. Fuchs and C. Hoepfing. 2010. Epidemiology of *Iris yellow spot virus* in eastern North American onion

ecosystems. Eleventh International Plant Virus Epidemiology Symposium, Ithaca, NY. June 20-24, 2010.

38. Fleischer, S. J., F. Gildow, B. Nault, and D. Shah. 2010. Aphid communities, migration, and CMV epidemiology in snap beans. Northeast Vegetable and Field Crops Symposium. Entomological Society of America - Eastern Branch. Annapolis, MD.
39. **Artz, D. A., and B. A. Nault. 2010. Bee pollinators of pumpkin: Identification, nesting biology, and foraging behavior. The Xerces Society for Insect Conservation. New York Pollinator Conservation Planning Short Course. Corning, NY. September 23, 2010.
40. *Smith, E. A., A. DiTommaso, C. L. Hsu, M. Fuchs, A. M. Shelton and B. A. Nault. 2009. Weed hosts of onion thrips (*Thrips tabaci*) and their role in Iris yellow spot virus epidemiology in onion. Entomological Society of America Annual Meeting, Indianapolis, IN. (**Note: Awarded President's Prize [first place] in the Graduate Student Ten-Minute Paper Competition, Plant-Insect Ecosystems: Plant Resistance**).
41. Diaz-Montano, J., B. A. Nault, M. Fuchs and A. M. Shelton. 2009. Characterization of resistance to onion thrips (*Thrips tabaci* Lindeman) and incidence of *Iris yellow spot virus* in onion cultivars. Entomological Society of America Annual Meeting, Indianapolis, IN. (**Note: Awarded President's Prize [second place] in Graduate Student Poster Competition for the Section Plant-Insect Ecosystems: Host Plant Interaction, Resistance**).
42. **Artz, D. and B. A. Nault. 2009. Are native bees important pollinators of pumpkin in New York? Entomological Society of America Annual Meeting, Indianapolis, IN.
43. **Hsu, C. L., C. Hoeping, S. Reiners and B. A. Nault. 2009. Effects of nitrogen fertilizer rates on onion thrips (*Thrips tabaci* Lindeman) populations in the field. Entomological Society of America Annual Meeting, Indianapolis, IN.
44. **Hsu, C. L., C. Hoeping, A. Shelton and B. A. Nault. 2009. New York update on onion thrips and *Iris yellow spot virus* research. W-1008 Annual Meeting. San Antonio, TX. December 3, 2009.
45. Hoeping, C., M. L. Hessney and B. A. Nault. 2009. Onion thrips management update: New York. W-1008 Annual Meeting. San Antonio, TX. December 3, 2009.
46. Nault, B. A. 2009. Controlling onion thrips with insecticides. The IX International Symposium on Thysanoptera and Tospoviruses. Main Beach, Queensland, Australia. September 4, 2009.
47. Nault, B. A. 2009. Ecology of onion thrips and epidemiology of *Iris yellow spot virus*: Implications for management in New York onion fields. The IX International Symposium on Thysanoptera and Tospoviruses. Main Beach, Queensland, Australia. September 1, 2009.

48. Nault, B. A. 2009. Update on novel products for vegetable insect pest management. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 12, 2009.
49. Nault, B. A. 2009. Onion insect management and Iris yellow spot virus research update for 2009. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 10, 2009.
50. *Smith, E. A., A. DiTommaso, M. Fuchs, A. M. Shelton and B. A. Nault. 2009. Weed hosts for onion thrips and their potential role on epidemiology of *Iris yellow spot virus* in onion fields. Entomological Society of America - Eastern Branch, Harrisburg, PA. (**Note: Awarded second place in Student Oral Presentation Competition**).
51. Nault, B. A., C. Hsu, E. Smith, A. Shelton, M. Fuchs, C. Hoepting and A. DiTommaso. 2008. Identifying sources of IYSV in New York's cropping system. 2008 National Allium Research Conference, Savannah, GA.
52. **Hsu, C., C. Hoepting, A. Shelton and B. Nault. 2008. Seasonal prevalence of *Iris yellow spot virus* in transplanted and direct-seeded onion fields. 2008 National Allium Research Conference, Savannah, GA.
53. Nault, B. 2008. Controlling thrips with insecticides. Annual Meeting for Multi-State Project W1008: Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions. Savannah, GA.
54. **Hsu, C., and B. Nault. 2008. Tracking the movement of *Iris yellow spot virus* within onion plants. Annual Meeting for Multi-State Project W1008: Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions. Savannah, GA.
55. **Hsu, C. L., C. Hoepting, A. M. Shelton and B. A. Nault. 2008. Tracking the spread of *Iris yellow spot virus* (IYSV) in onion fields. Entomological Society of America Annual Meeting, Reno, NV.
56. *Smith, E., A. DiTommaso, M. Fuchs, A. M. Shelton and B. A. Nault. 2008. Identifying weed hosts for onion thrips (*Thrips tabaci*) and implications for *Iris yellow spot virus* management in onion. Entomological Society of America Annual Meeting, Reno, NV. (**Note: Awarded President's Prize [second place] in Student Competition for the Section Plant-Insect Ecosystems: Tri-trophic Interactions**).
57. Diaz-Montano, J., A. M. Shelton, B. A. Nault and M. Fuchs. 2008. Screening for resistance and yield losses caused by onion thrips (*Thrips tabaci* Lindeman) and Iris yellow spot virus on onions. Entomological Society of America Annual Meeting, Reno, NV.
58. Shah, D. A., B. A. Nault and H. R. Dillard. 2008. Associations between *Cucurbit mosaic virus* incidence and aphid dispersal activity in snap bean in New York. American Phytopathological Society Annual Meeting, Minneapolis, MN. **Hsu, C., D. Shah, M. Fuchs, A. Shelton and B. Nault. 2008. Differences in thrips pressure and prevalence of *Iris yellow spot virus*

(*Tospovirus*) in transplant and direct-seeded onions. Eastern Branch - Entomological Society of America Annual Meeting, Syracuse, NY.

60. *Smith, E., C. Hsu, M. Fuchs, A. Shelton, C. Hoepting and B. Nault. 2008. Assessing possible sources of onion-thrips transmitted *Iris yellow spot virus* in New York onion fields. Eastern Branch - Entomological Society of America Annual Meeting, Syracuse, NY.
61. *Boutard-Hunt, C., and B. A. Nault. 2008. Evaluating the impact of growth-promoting-rhizobacteria and natural enemies on *Myzus persicae* infestations in pepper. Eastern Branch - Entomological Society of America Annual Meeting, Syracuse, NY.
62. Diaz-Montano, J., A. M. Shelton, B. A. Nault and M. Fuchs. 2008. Screening for resistance and impact onion thrips (*Thrips tabaci* Lindeman) and *Iris yellow spot virus* on onion growth. Eastern Branch - Entomological Society of America Annual Meeting, Syracuse, NY.
63. Nault, B., A. Shelton, M. Fuchs, C. Hsu, E. Smith, and M. Hessney. 2008. IYSV epidemiology, thrips ecology and management in New York. Annual Meeting for Multi-State Project W1008: Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions. Denver, CO.
64. *Smith, E., C. Hsu, M. Fuchs, A. Shelton, C. Hoepting and B. Nault. 2007. Assessing possible sources of *Iris yellow spot virus* (*Tospovirus*) in New York onion (*Allium cepa*) fields. Entomological Society of America Annual Meeting, San Diego, CA.
65. **Hsu, C., D. Shah, M. Fuchs, C. Hoepting, A. Shelton and B. Nault. 2007. Monitoring incidence and spread of *Iris yellow spot virus* (*Tospovirus*) in transplant versus direct-seeded onions. Entomological Society of America Annual Meeting, San Diego, CA.
66. Diaz-Montano, J., A. M. Shelton, B. A. Nault and M. Fuchs. 2007. Screening for resistance and yield losses caused by onion thrips (*Thrips tabaci* Lindeman) and *Iris yellow spot virus*. Entomological Society of America Annual Meeting, San Diego, CA. (**Note: Awarded President's Prize [first place] in Student Display Competition in Section F: Crop Protection Entomology**).
67. Nault, B. A., J. P. Nyrop and S. E. Wright. 2007. Evaluating insecticide-baited devices for controlling onion maggot flies (*Delia antiqua*). Entomological Society of America Annual Meeting, San Diego, CA.
68. Nault, B. A. 2007. Seed treatments and native bees – potential factors for improving production? Cornell Cooperative Extension Agriculture and Food Systems In-Service, Ithaca, NY.
69. **Hsu, C., B. Nault, C. Hoepting and M. Fuchs. November. 2007. Seasonal incidence of IYSV and onion thrips. Cornell Cooperative Extension Agriculture and Food Systems In-Service, Ithaca, NY.
70. Nault, B. A., D. A. Shah, A. G. Taylor, F. E. Gildow and S. J. Fleischer. 2006. Reducing yield loss by aphid-transmitted viruses in snap bean. *In* Section F

Symposium: Ecology and management of insect vectors of plant pathogens in vegetable crops. Entomological Society of America Annual Meeting, Indianapolis, IN.

71. Voss, S. C., R. L. Groves, B. A. Nault and G. G. Kennedy. 2006. Local temperatures and precipitation explain variation in spring dispersal of *Frankliniella fusca* (Thysanoptera: Thripidae). Entomological Society of America – Southeastern Branch Meeting. Wilmington, NC.

Invited Seminars

1. Nault, B. A. 2012. Onion thrips and *Iris yellow spot virus* interactions and their management in an onion ecosystem. Department of Entomology, Cornell University, New York State Agricultural Experiment Station. April 24, 2012, Geneva, NY. Speaker, 1-hr seminar.
2. Nault, B. A. 2008. Seasonal patterns of aphid vector dispersal and *Cucumber mosaic virus* in snap bean fields: Implications for management. Department of Entomology, The Ohio State University, Ohio Agricultural Research & Development Center. Wooster, OH and beamed to Columbus, OH. October 13, 2008. Speaker, 1 hr seminar.
3. Nault, B. A. 2008. Seasonal patterns of aphid vector dispersal and *Cucumber mosaic virus* in snap bean fields: Implications for management. Department of Entomology, Cornell University, New York State Agricultural Experiment Station. Geneva, NY. September 9, 2008. Speaker, 1 hr seminar.
4. Nault, B. A. 2008. Seasonal patterns of aphid vector dispersal and *Cucumber mosaic virus* in snap bean fields: Implications for management. Department of Entomology, University of Wisconsin. Madison, WI. March 5, 2008. Speaker, 1 hr seminar.
5. Nault, B. A. 2008. Seasonal patterns of aphid vector dispersal and *Cucumber mosaic virus* in snap bean fields: Implications for management. Department of Entomology, Cornell University. Ithaca, NY. March 3, 2008. Speaker, 1 hr seminar.
6. Nault, B. A. 2007. Developing a management strategy for onion maggot. Department of Entomology, North Carolina State University. Raleigh, NC. May 2, 2007. Speaker, 1 hr seminar.
7. Nault, B. A. 2007. Pesticides and Food Safety. Department of Entomology, North Carolina State University. Raleigh, NC. May 3, 2007. Speaker, 30 minute talk.
8. Nault, B. A. 2006. Landscape-level ecology and management of the onion maggot. Department of Entomology, University of Georgia. Athens, GA. May 1, 2006.
9. Nault, B. A. 2006. Onion maggot ecology and management in a unique agricultural landscape. Department of Entomology, Cornell University. Geneva, NY. April 26, 2006.

Invited Symposia

1. Jacobson, A., G. G. Kennedy, and B. A. Nault. 2016. Spatio-temporal host utilization of *T. tabaci* in onion agroecosystems. *In* Pest issues and management at the interface of natural and managed systems. Entomological Society of America's Southeastern Branch Meeting, March 15, 2016, Raleigh, NC.
2. Nault, B. A. 2015. Challenges of reducing insecticide dependency in IPM programs for high-value vegetable crops. *In* PI-E Member Symposium: Beyond corn and soybeans: Challenges to integrated pest management in specialty crops. Entomological Society of America Annual Meeting, November 15, 2015, Minneapolis, MN.
3. Jacobson, A. and B. A. Nault. 2014. Effects of distance, reproductive mode, and host plant associations on the genetic structure of *Thrips tabaci* in New York onion agro-ecosystems: Implications for thrips and tospovirus management. *In* PI-E Section Symposium: Effects of cropping system landscapes on the ecology and management of insect vectors and transmitted pathogens. Entomological Society of America Annual Meeting, November 19, 2014, Portland, OR.
4. **Huseth, A. S., J. D. Petersen, K. Poveda, Z. Szendrei, B. Nault, G. Kennedy, and R. Groves. 2014. Insecticide resistance in a specialist herbivore shows a hidden cost of agricultural intensification. *In* Program Symposium: Agricultural intensification and insect communities: Production trade-off challenges with 9 billion on the horizon. Entomological Society of America Annual Meeting, November 16, 2014, Portland, OR.
5. Nault, B. A. and A. M. Shelton. 2013. It's not all fruit in the Big Apple: Vegetable pest management of onion thrips in onion and cabbage. *In* PI-E Section Symposium: Current Status of Vegetable Insect Pests in the USA. Entomological Society of America Annual Meeting, November 13, 2013, Austin, TX.
6. Nault, B. A. and A. M. Shelton. 2012. Proactive IRM for thrips: A case study of onion thrips in onion. *In* PI-E Section Symposium: Do crises drive innovation? Insect Resistance Management: Proactive or Reactive? Entomological Society of America Annual Meeting, November 2012, Knoxville, TN.
7. **Petersen, J. D. and B. A. Nault. 2012. Comparing fruit yield in pumpkin fields supplemented with honey bees (*Apis mellifera*) or bumble bees (*Bombus impatiens*). *In* Program Symposium: Linking Global Agricultural Production with Pollination Services. Entomological Society of America Annual Meeting, November 2012, Knoxville, TN.
8. Nault, B. A. 2011. Thrips IRM in onions. *In* Symposium: Progress toward insecticide resistance management for thrips. Entomological Society of America Annual Meeting, November 15, 2011, Reno, NV.
9. Nault, B. A., and A. M. Shelton. 2011. IPM for onion thrips (*Thrips tabaci*) in onion. *In* Symposium: Onion thrips workshop. Entomological Society of America Annual Meeting, November 13, 2011. Reno, NV.

10. Shelton, A.M., and B. A. Nault. 2011. Spatial and temporal insecticide resistance in onion thrips (*Thrips tabaci*) populations in onions. *In* Symposium: Onion thrips workshop. Entomological Society of America Annual Meeting, November 13, 2011. Reno, NV. Invited workshop presentation.
11. **Hsu, C., C. Hoepting, M. Fuchs, A. M. Shelton and B. A. Nault. 2011. Changes in the spatial distribution of onion thrips (*Thrips tabaci*) and *Iris yellow spot virus* in onion fields over time. *In* Symposium: Onion thrips workshop. Entomological Society of America Annual Meeting, November 13, 2011. Reno, NV.
12. Nault, B. A., C. L. Hsu, E. Smith, A. M. Shelton, M. Fuchs and C. Hoepting. 2009. Onion thrips and *Iris yellow spot virus* interactions in an onion ecosystem. *In* Symposium: Vector-virus interactions in agro ecosystems: Approaches, advancements and limitations. Entomological Society of America Annual Meeting, Indianapolis, IN.
13. Taylor, A. G. and B. A. Nault. 2009. Advancements in seed treatment and coating technologies for vegetable insect control. *In* Symposium: Current and emerging trends in vegetable insect pest management. Entomological Society of America Annual Meeting, Indianapolis, IN.
14. Nault, B. A. 2009. Thrips IPM in bulb vegetables. *In* Symposium: Increasing grower use of thrips IPM systems to manage insecticide resistance. Sixth International Integrated Pest Management Symposium, Portland, OR. March 26, 2009.
15. Nault, B. A. 2008. Managing onion maggot and seedcorn maggot with an emphasis on seed treatments. *In* Symposium: Managing soil arthropod pests in vegetables: High stakes and long odds. Entomological Society of America Annual Meeting, Reno, NV.
16. Nault, B. A. 2007. Seed treatments for vegetable insect pest management – challenges for registration and opportunities for use. *In* New Pesticide Discoveries Symposium: The impact of new pesticides and regulatory changes on pest management in vegetable and fruit crops. Entomological Society of America's Eastern Branch Meeting. March 20, 2007. Harrisburg, PA.

Other Invited

1. Nault, B. A. 2016. Onion insect management – results from New York State. Sixty-Fifth Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. April 13, 2016. Speaker, 30 minute talk.
2. Nault, B. A. 2014. Onion thrips management. Great Lakes Fruit, Vegetable and Farm Market EXPO. Grand Rapids, MI. Michigan State University Extension. December 10, 2014. Speaker, 60 minute talk.
3. *Leach, A., C. Hoepting, and B. Nault. 2014. Optimizing onion thrips management in onion. Great Lakes Fruit, Vegetable and Farm Market EXPO. Grand Rapids, MI. Michigan State University Extension. December 9-11, 2014. Co-author, poster.

4. Nault, B. A., and C. Hoeping. 2014. Management of onion maggot and onion thrips – Research in New York State. 62nd Annual Muck Vegetable Growers Conference. Bradford, ON Canada. University of Guelph. April 10, 2014. Co-author, 30 minute talk.
5. **Petersen, J., and B. A. Nault. 2013. Pollination of pumpkin in New York farms. Great Lakes Fruit, Vegetable and Farm Market EXPO. Grand Rapids, MI. Michigan State University Extension. December 10, 2013. Co-author, 30 minute talk.
6. **Petersen, J., and B. A. Nault. 2013. Abilities of wild bees to provide pollination services to pumpkin. Grand Rapids, MI. Michigan State University Extension. December 11, 2013. Co-author, 30 minute talk.
7. Nault, B. A. 2013. Integrated pest management of onion thrips. *In* Onion session. Mid-Atlantic Fruit and Vegetable Convention, Hershey, PA. January 30, 2013. Speaker, 30 minutes. 60 attendees.
8. Nault, B. A. 2012. Onion insect pest management in onion. Great Lakes Fruit, Vegetable & Farm EXPO. Grand Rapids, MI. Michigan State University Extension. December 5, 2012. Speaker, 30 minute talk. 139 attendees.
9. Nault, B. A. 2012. Does supplementing pumpkin fields with bees improve yield? Great Lakes Fruit, Vegetable & Farm EXPO. Grand Rapids, MI. Michigan State University Extension. December 5, 2012. Speaker, 30 minute talk. 191 attendees.
10. Nault, B. A. 2012. Advancements in insecticide seed treatments for vegetable crops. 74th Annual Cornell Seed Conference. Geneva, NY. November 29, 2012. Speaker, 30 minute talk. 80 attendees.
11. Nault, B. A. 2012. Onion thrips and *Iris yellow spot virus* interactions and their management in an onion ecosystem. Cornell Plant Virology Working Group. Ithaca, NY. March 23, 2012. Speaker, 60 minutes. 12 attendees.
12. Nault, B. A. and J. Petersen. 2012. Could pumpkin production be enhanced with bumble bees? First Annual Department of Entomology Symposium. Cornell University, Ithaca, NY. Speaker, 15 minutes. Attendees: 35.
13. Nault, B. A., D. R. Artz and J. Petersen. 2011. Potential for bumble bees to improve production of pumpkins. New England Vegetable and Fruit Conference. Manchester, NH. December 13-14, 2011. Speaker, 30 minutes. Attendees: 60.
14. Nault, B. A., C. L. Hsu and C. A. Hoeping. 2011. Impact of co-applications of insecticides and fungicides on thrips control in onion. Disease and insect update meeting sponsored by Syngenta Crop Protection. Dundee, NY. March 2011. Speaker, 20 minutes.
15. Nault, B. A. 2010. Can biopesticides be effective for managing onion thrips in onion? Biopesticide Industry Alliance Semi-Annual Meeting. Ottawa, ON, Canada. April 2010. Speaker, 30 minutes.

16. Nault, B. A. and C. A. Hoepting. 2010. Onion thrips management in onion using Agri-Mek. 2010 – Disease and insect update meeting sponsored by Syngenta Crop Protection. Dundee, NY. March 2010. Speaker, 20 minutes.
17. Nault, B. A. 2009. Onion thrips control in New York. Great Lakes EXPO. Grand Rapids, MI. Michigan State University Extension. December 9, 2009. Speaker, 45 minutes.
18. Nault, B. A. 2009. Performance of Movento 240SC for onion thrips control in onion. Bayer Crop Science Northeast University and Consultants Meeting. Greensboro, GA. March 10, 2009. Speaker, 20 minutes.
19. **Hsu, C., B. Nault, D. Shah, M. Fuchs, C. Hoepting and A. Shelton. 2008. *Iris yellow spot virus*: Research update from New York State. Fifty-Seventh Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. March 27, 2008. Co-author, 30 minutes.
20. Hoepting, C., and B. Nault. 2008. Advances in the control of onion thrips. A report from New York State. Fifty-Seventh Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. March 27, 2008. Co-author, 30 minutes.
21. Nault, B. A. 2008. Getting the upper hand on onion thrips and IYSV. Wisconsin Muck Farmers Association Annual Meeting. Portage, WI. March 4, 2008. Speaker, 45 minutes.
22. Nault, B. A. 2008. Onion maggot management in New York. Wisconsin Muck Farmers Association Annual Meeting. Portage, WI. March 4, 2008. Speaker, 30 minutes.
23. Nault, B. A. 2007. Biology and ecology of onion thrips. Malheur County, Oregon/Idaho Onion Growers – 47th Annual Meeting. Ontario, OR. February 6, 2007. Speaker, 45 minutes.
24. Nault, B. A. 2007. Onion thrips ecology and control in onion. Mid-Atlantic Fruit and Vegetable Convention, Hershey, PA. January 30, 2007. Speaker, 30 minutes.
25. Nault, B. A. 2007. Understanding viruses in snap beans. Mid-Atlantic Fruit and Vegetable Convention, Hershey, PA. January 30, 2007. Speaker, 45 minutes.
26. Nault, B. A. 2006. Recherche sur l'écologie et la repression de la mouche de l'oignon dans l'Etat de New-York. Les Journées Horticoles 11th Edition. St. Remi, Quebec Canada. December 6, 2006. Speaker, 20 minutes.
27. Nault, B. A. 2006. Recherche sur l'écologie et la repression du thrips de l'oignon dans l'Etat de New-York. Les Journées Horticoles 11th Edition. St. Remi, Quebec Canada. December 6, 2006. Speaker, 40 minutes.
28. Nault, B. A. 2006. Biology and ecology of onion thrips in onion fields. Pacific Northwest Vegetable Association 20th Anniversary Conference. Pasco, WA. November 15, 2006. Speaker, 45 minutes.

29. Nault, B. A. 2006. Ecology and management of onion maggot. Pacific Northwest Vegetable Association 20th Anniversary Conference. Pasco, WA. November 15, 2006. Speaker, 45 minutes.
30. Nault, B. A. 2006. Managing onion maggot in direct-seeded and transplanted onions. Fifty-fifth Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. March 23, 2006. Speaker, 20 minutes.
31. Nault, B. A. 2006. Onion thrips management in onion with an emphasis on insecticide control. Fifty-fifth Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. March 23, 2006. Speaker, 20 minutes.

Undergraduate Presentations (Posters)

1. Short, S. and B. A. Nault. 2015. Evaluation of onion cultivars for resistance to onion thrips (*Thrips tabaci*). NYSAES Summer Scholars poster session. Geneva, NY. July 31, 2015.
2. Justus, E., A. Leach, and B. Nault. 2014. Identifying a major source of *Iris yellow spot virus* (IYSV) in New York onion cropping systems. NYSAES Summer Scholars poster session. Geneva, NY. July 29, 2014.

Extension Publications and Presentations (last five years)

	2015	2014	2013	2012	2011	Median
# Extension Publications	2	14	7	15	12	12
# Extension Presentations	14	13	16	18	9	14
Total contact hours	398	231.58	408.83	492.08	250	398

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

1. Nault, B. A. 2016. Onion insect management. Oswego County Onion Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 16, 2016. Speaker, 30 minutes. Attendance: 50.
2. Nault, B. A. 2016. Insect pest management update. 2016. Onion School. Cornell Cooperative Extension of Orange County. Middletown, NY. March 8, 2016. Speaker, 45 minutes. Attendees: 55.
3. Nault, B. A., A. Leach, and C. Hoepfing. 2016. Medicating onions for thrips infestations: New remedies to consider. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 20, 2016. Speaker, 20 minutes. Attendees: 60.
4. Leach, A., B. A. Nault and S. Reiners. 2016. Evaluating a three-component IPM program for onion thrips. Empire State Producers EXPO. Cornell Cooperative

- Extension. Syracuse, NY. January 20, 2016. Co-author, 20 minutes. Attendees: 60.
5. Hoepfing, C. A., B. A. Nault and A. Leach. 2016. Adoption and performance of the Cornell Onion Thrips Management Program in 2015. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 20, 2016. Co-author, 15 minutes. Attendees: 60.
 6. Schmidt-Jeffris, R., and B. A. Nault. 2016. Effects of cropping history on European corn borer abundance in processing sweet corn and snap beans. 2016. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 19, 2016. Co-author, 20 minutes. Attendees: ??.
 7. Schmidt-Jeffris, R., and B. A. Nault. 2016. Effects of material and timing for European corn borer control in snap beans. 2016. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 19, 2016. Co-author, 15 minutes. Attendees: ??.
 8. Nault, B. A. 2015. Potato insect management update. Cornell Cooperative Extension, Vegetable Program. Upstate New York Potato Advisory Meeting. Canandaigua, NY. December 17, 2015. Speaker, 15 minutes. Attendees: 35.
 9. Nault, B. A. 2015. Evaluating novel tools, delivery techniques and application strategies for managing onion insect pests. New York State Onion Research and Development Program Reporting Session and Advisory Board Meeting. Geneva, NY. December 17, 2015. Speaker, 30 minutes. Attendees: 15.
 10. **Schmidt-Jeffris, R. and B. A. Nault. 2015. Cropping practices and landscape factors associated with European corn borer populations: Implications for improving management in sweet corn and snap bean. Processing snap bean advisory meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Geneva, NY. December 14, 2015. Co-author, 15 minutes. Attendees: 50.
 11. *Leach, A. C. Hoepfing, and B. Nault. 2015. Implementing Cornell's onion thrips management program on New York onion farms. Great Lakes Fruit and Vegetable EXPO, Grand Rapids, MI. December 9, 2015. Poster presentation.
 12. Nault, B. A., A. Leach, and C. Hoepfing. 2015. Onion thrips management update. Elba Muck Onion Donut Hour. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 18, 2015. Speaker, 30 minutes. Attendees: 10.
 13. Nault, B. A. 2015. Update on onion thrips management. Oswego County Onion Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 23, 2015. Speaker, 60 minutes. Attendance: 60.
 14. Nault, B. A. 2015. Thrips management and subterranean mites and insects. Capital District Commercial Vegetable Growers' School and Mini Trade Show. Cornell Cooperative Extension, Eastern New York Commercial Horticulture Program. Albany, NY. February 25, 2015. Speaker, 30 minutes. Attendees: 75.
 15. Nault, B. A. 2015. Thrips management and subterranean mites and insects. Hudson Valley Commercial Vegetable Growers' School and Mini Trade Show. Cornell Cooperative Extension, Eastern New York Commercial Horticulture

- Program. Middletown, NY. February 24, 2015. Speaker, 45 minutes. Attendees: 82.
16. Nault, B. A. 2015. Aphids and Two-Spotted Spider Mites: Biology and Management. Orleans Produce Auction Winter Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Albion, NY. February 13, 2015. Speaker, 30 minutes. Attendees: 25.
 17. Nault, B. A., and A. S. Huseh. 2015. European corn borer management in snap bean: Advancements in insecticide use and influence of landscape. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 20, 2015. Speaker, 30 minutes. Attendees: 88.
 18. Nault, B. A. 2015. Onion thrips management: Crisis averted? What's next? Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 22, 2015. Speaker, 30 minutes. Attendees: ??
 19. Nault, B. A. 2015. Pollination in vine crops—it's all about the bees! Finger Lakes Produce Auction Growers Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Penn Yan, NY. January 8, 2015. Speaker, 45 minutes. Attendees: 95.
 20. Nault, B. A. 2015. Onion pest management update. Finger Lakes Produce Auction Growers Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Penn Yan, NY. January 8, 2015. Speaker, 30 minutes. Attendees: 95.
 21. Nault, B. A., and A. S. Huseh. 2014. Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean. Processing snap and lima bean advisory meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Geneva, NY. December 17, 2014. Speaker, 20 minutes. Attendees: 40.
 22. **Huseh, A., and B. A. Nault. 2014. Update on management of Colorado potato beetle and other insect pests. Fresh Market Potato Varieties, Disease & Insect Management Meeting. Cornell Cooperative Extension, Vegetable Program. Marion, NY. August, 28, 2014. Co-author, 30 minutes. Attendees: 40.
 23. Nault, B. A. 2014. Onion thrips management update. Elba onion twilight meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 7, 2014. Speaker, 30 minutes. Attendees: 40.
 24. Nault, B. A. 2014. Optimizing control and mitigating insecticide resistance in onion insect pests. Orange County Onion School. Middleton, NY. March 7, 2014. Speaker. Duration: 40 minutes. Attendance: 30.
 25. Nault, B. A. 2014. Insect pests and management update. 2014 New York State Onion Industry Council Winter Meeting. Cornell Cooperative Extension. Ithaca, NY. February 12, 2014. Speaker, 30 minutes. Attendees: 24.
 26. Nault, B. A., and J. D. Petersen. 2014. Supplementing pumpkins with bee hives: Is it worth it? Empire State Producers EXPO. January 22, 2014. Syracuse, NY. Speaker, 45 minutes. Attendance: 25.

27. **Huseth, A., and B. Nault. 2014. Managing Colorado potato beetle neonicotinoid resistance: new tools and strategies for the next decade of pest control in potato. Empire State Producers EXPO. January 21, 2014. Syracuse, NY. Co-author, 15 minutes. Attendees: 50.
28. Nault, B. A., and E. A. Smith. 2014. IYSV flares up in New York in 2013: Should onion growers be concerned? Empire State Producers EXPO. January 21, 2014. Syracuse, NY. Speaker, 30 minutes. Attendance: 55.
29. Jacobson, A. L., E. L. Vargo, G. G. Kennedy, and B. A. Nault. 2014. Onion thrips population genetics and implications for management. Empire State Producers EXPO. Syracuse, NY. January 21, 2014. Co-author, 30 minute talk. Attendance: 55.
30. **Huseth, A., and B. A. Nault. 2013. Developing a risk assessment model for making European corn borer control decisions and optimizing insecticide use in snap bean. Processing Snap and Lima Bean Advisory Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Geneva, NY. December 11, 2013. Co-author, 15 minutes. Attendees: 50.
31. Nault, B. A. 2013. What's new for Colorado potato beetle control? New York State Potato Advisory Council Meeting. Canandaigua, NY. December 5, 2013. Speaker, 30 minutes. Attendance: 25.
32. Nault, B. A. 2013. Update on new insecticides for vegetable insect pest management in New York. Cornell Cooperative Extension's Agricultural In-Service Annual Meeting. Ithaca, NY. November 21, 2013. Speaker, 30 minutes. Attendance: 30.
33. **Huseth, A., and B. A. Nault. 2013. Updates on managing Colorado potato beetle in potato. Cornell Cooperative Extension's Agricultural In-Service Annual Meeting. Ithaca, NY. November 20, 2013. Speaker, 20 minutes. Attendance: 30.
34. **Huseth, A., and B. A. Nault. 2013. Cucurbit insect pest management – pests, tools and future challenges. Cornell Cooperative Extension, Squash School. Rochester, NY. November 8, 2013. Co-author, 30 minute talk. Attendance: 62.
35. Nault, B. A. 2013. Managing onion insect pests. Oswego County Onion Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 25, 2013. Speaker, 30 minutes. Attendance: 60.
36. Nault, B. A. 2013. Building market foundations for sustainable processing vegetable production: USDA Specialty Crops Research Initiative Grant – Snap Bean Insect Pest Management. Cornell Cooperative Extension. Canandaigua, NY. March 28, 2013. Speaker, 20 minutes. Attendees: 16.
37. Nault, B. A. 2013. Insect management for onions. Orange County Onion School. Middletown, NY. March 1, 2013. Speaker. Duration: 30 minutes. Attendance: 30.

38. Nault, B. A. 2013. Insect pests and management update. 2013 New York State Onion Industry Council Winter Meeting. Cornell Cooperative Extension. Ithaca, NY. February 21, 2013. Speaker, 45 minutes. Attendees: 20.
39. Nault, B. A. 2013. Colorado potato beetle management options. Empire State Fruit & Vegetable EXPO. Syracuse, NY. January 22, 2013. Speaker, 30 minutes. Attendance: 60.
40. **Petersen, J. D., and B. A. Nault. 2013. Is it worth supplementing pumpkin fields with bees? Empire State Fruit & Vegetable EXPO. Syracuse, NY. January 23, 2013. Co-author, 30 minute talk. Attendance: 80.
41. Nault, B. A. 2012. Evaluating the performance of anthranilic diamides for European corn borer management in snap bean. 2012 Processing Snap and Lima Bean Advisory Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Marion, NY. Geneva, NY. December 11, 2012. Speaker, 15 minutes. Attendees: 50.
42. Nault, B. A. The potato leafhopper invasion of 2012. 2012 New York State Dry Bean Field Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Marion, NY. Stafford, NY. September 18, 2012. Speaker, 15 minutes. Attendance: 25.
43. Nault, B. A. Colorado potato beetle insecticide resistance management and dealing with potato insects in 2012. Fresh Market Potato Varieties and Insect & Disease Management Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Marion, NY. August 23, 2012. Speaker, 25 minutes. Attendance: 20.
44. Nault, B. A. 2012. Field demonstration of managing onion thrips. 2012 Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Elba, NY. August 2, 2012. Speaker, 30 minutes. Attendance: 35.
45. Nault, B. A. and C. A. Hoeping. 2012. Update on new onion maggot and onion smut seed treatments. 2012 Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Cornell Vegetable Program. Elba, NY. August 2, 2012. Speaker, 15 minutes. Attendance: 35.
46. Nault, B. A. 2012. Onion maggot seed treatment control demonstration. 2012 New York State Onion Industry Council Summer Tour and Meeting in Wayne County, NY. Sodus, NY. July 11, 2012. Speaker, 30 minutes. Attendance: 30.
47. Nault, B. A. 2012. Considerations for managing maggots and thrips in onions. Oswego County Onion Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 18, 2012. Speaker, 40 minutes. Attendance: 50.
48. Nault, B. A. 2012. Insect management for 2012 – maggot and thrips control. Orange County Onion School. March 1, 2012. Middletown, NY. Speaker. Duration: 60 minutes. Attendance: 50.

49. Nault, B. A. 2012. Colorado potato beetle management options. Empire State Fruit & Vegetable EXPO. January 25, 2012. Syracuse, NY. Speaker. Duration: 20 minutes. Attendance: 80.
50. Nault, B. A., A. M. Shelton, C. L. Hsu and C. A. Hoepting. 2012. How to win the battle against onion thrips. Empire State Fruit & Vegetable EXPO. January 26, 2012. Syracuse, NY. Speaker. Duration: 45 minutes. Attendance: 60.
51. *Hsu, C.L., C. A. Hoepting, C. R. MacNeil and B. A. Nault. 2012. How low can you go? The economics of controlling onion thrips with reduced inputs. Empire State Fruit & Vegetable EXPO. January 26, 2012. Syracuse, NY. Co-author. Duration: 20 minutes. Attendance: 60.
52. *Petersen, J. D. and B. A. Nault. 2012. Can pumpkin yield be increased by supplementing fields with honey bees or bumble bees? Empire State Fruit & Vegetable EXPO. January 26, 2012. Syracuse, NY. Co-author, 15 minutes. Attendance: 12.
53. *Petersen, J. D. and B. A. Nault. 2012. Can pumpkin yield be increased by supplementing fields with honey bees or bumble bees? Northeast Organic Research Symposium. January 20, 2012. Saratoga Springs, NY. Co-author, 15 minutes. Attendance: 60.
54. Nault, B. A. 2011. Update on onion insect pests. Oswego County Onion Growers Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 22, 2011. Speaker, 60 minutes. Attendance: 80.
55. Nault, B. A., C. L. Hsu, and E. Fok. 2011. Latest developments in management of onion thrips management. 2011 Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 2, 2011. Speaker, 30 minutes. Attendance: 40.
56. Nault, B. A., C. L. Hsu and C. A. Hoepting. 2011. Onion thrips management: Preserving insecticides as an effective strategy. Onion School. Cornell Cooperative Extension of Orange Co. Middletown, NY. March 2, 2011. Speaker, 30 minutes. Attendance: 40.
57. Nault, B. A., C. L. Hsu and C. A. Hoepting. 2011. Do tank mixes of insecticides and fungicides affect thrips control? Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. January 27, 2011. Speaker, 30 minutes. Attendees: 60
58. **Hsu, C. L., B. A. Nault, S. Reiners and C. A. Hoepting. 2011. Reduced inputs workshop: Relationship between nitrogen fertilizer rate, onion thrips and yield in NY. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. January 27, 2011. Co-presenter, 20 minutes. Attendees: 60.
59. Nault, B. A. 2011. The potential for bumble bees to improve production of cucurbit crops. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension

and New York State Vegetable Growers Association. Syracuse, NY. January 26, 2011. Speaker, 20 minutes. Attendees: 120.

60. Nault, B. A. 2010. Novel insecticides delivered using multiple approaches to control of European corn borer and other pests in snap bean. New York sweet corn and snap bean advisory meeting. Cornell Cooperative Extension, Vegetable Program. Geneva, NY. December 6, 2010. Speaker, 20 minutes. Attendees: 50.
61. Nault, B. A. 2010. New developments in managing onion maggot in transplanted and direct-seeded onions. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 4, 2010. Speaker, 15 minutes. Attendees: 34.
62. **Hsu, C., and Nault, B. A. 2010. Demonstration of the interaction between nitrogen and onion thrips. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 4, 2010. Co-presenter, 20 minutes. Attendees: 34.
63. Nault, B. A. 2010. Tank mix interactions among insecticides, fungicides and adjuvants for control of onion thrips. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 4, 2010. Speaker, 25 minutes. Attendees: 34.
64. Nault, B. A. 2010. Leek moth in New York: What you need to know. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 4, 2010. Speaker, 10 minutes. Attendees: 34.
65. Nault, B. A., C. L. Hsu, A. Shelton and M. L. Hessney. 2010. Onion insect management update. New York State Onion Industry Council Summer Tour and Meeting. Cornell Cooperative Extension. Pine Island, NY. July 21, 2010. Speaker, 20 minutes. Attendees: 15.
66. Nault, B. A. 2010. Seed treatments for insect control and pollination by native bees in vine crops. Capital District Vegetable and Small Fruit Growers Winter Meeting. Cornell Cooperative Extension. Albany, NY. March 10, 2010. Speaker, 30 minutes. Attendees: 100.
67. Nault, B. A. 2010. Aphids and viruses in dry bean and their management. NYS Dry Bean Meeting. Cornell Cooperative Extension, Vegetable Program. Mendon, NY. March 2, 2010. Speaker, 25 minutes. Attendees: 75.
68. Nault, B. A. 2010. Update on onion thrips management and IYSV. Onion School. Cornell Cooperative Extension of Orange Co. Middletown, NY. February 24, 2010. Speaker, 30 minutes. Attendees: 50.
69. Nault, B. A., C. L. Hsu, E. A. Smith, M. L. Hessney, M. Fuchs and A. M. Shelton. 2010. Managing onion thrips and status of *Iris yellow spot virus* in New York. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. January 27, 2010. Speaker, 30 minutes. Attendees: 48.

70. **Hsu, C. L., C. A. Hoepting, S. Reiners and B. A. Nault. 2010. Impact of nitrogen on onion thrips populations and implications for management. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. January 27, 2010. Co-presenter, 15 minutes. Attendees: 48.
71. Nault, B. A., and J. Kikkert. 2010. Viruses in beans: symptoms and vectors. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. January 26, 2010. Speaker, 30 minutes. Attendees: 130.
72. Nault, B. A., C. Hsu, A. Shelton, M. Fuchs, A. Taylor, J. Diaz-Montano, E. Smith, S. Reiners, and C. Hoepting. 2010. Onion insect management and *Iris yellow spot virus* research highlights from 2010. New York Onion Industry Council Winter Meeting. Ithaca, NY. January 19, 2010. Speaker, 30 minutes. Attendees: 25.
73. Nault, B. 2009. Novel products and application methods for insect pest management in snap bean. Processing Advisory Committee Round Table Meeting between the New York Vegetable Crop Research Association/Council and Cornell Cooperative Extension. Canandaigua, NY. December 2, 2009. Speaker, 15 minutes. Attendees: 50.
74. Nault, B. and M. Fuchs. 2009. Aphids, viruses and infected beans – What happened? New York State Dry Bean Field Meeting. Cornell Cooperative Extension, Vegetable Program. Newark, NY. September 10, 2009. Speaker, 30 minutes. Attendees: 25.
75. Nault, B. 2009. New management strategies for controlling onion thrips. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. July 29, 2009. Speaker, 20 minutes. Attendees: 50.
76. Nault, B. 2009. Do onion growers need to be concerned about Iris yellow spot virus? Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. July 29, 2009. Speaker, 10 minutes. Attendees: 50.
77. Nault, B. and C. Hoepting. 2009. New developments in managing onion maggot in direct-seeded and transplanted onions. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. July 29, 2009. Speaker, 15 minutes. Attendees: 50.
78. Nault, B., C. Hsu, T. Shelton, M. Fuchs, E. Smith and J. Diaz-Montano, M. L. Hessney, S. Reiners and A. Taylor. 2009. Onion insect management and *Iris yellow spot virus*. New York State Onion Industry Council Summer Tour and Meeting. Cornell Cooperative Extension. Potter, NY. July 23, 2009. Speaker and co-presenter, 45 minutes. Attendees: 60.
79. Nault, B. 2009. Using spirotetramat (Movento) to manage onion thrips in onions. Movento Educational Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. June 18, 2009. Speaker, 20 minutes. Attendees: 50.

80. Nault, B. 2009. Control of onion thrips. Oswego County Onion Growers Twilight Meeting. Cornell Cooperative Extension of Oswego Co. Oswego, NY. June 17, 2009. Speaker, 45 minutes. Attendees: 80.
81. Nault, B. 2009. Onion insect management with an emphasis on onion thrips. Onion School. Cornell Cooperative Extension of Orange Co. Middletown, NY. March 16, 2009. Speaker, 40 minutes. Attendees: 50.
82. Nault, B. A., C. Hsu, E. Smith, J. Diaz-Montano, M. L. Hessney, P. Marcella-Herrick, M. Fuchs, A. Shelton, A. DiTommaso and C. Hoepting. 2009. Onion thrips and *Iris yellow spot virus* in New York. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 11, 2009. Speaker, 30 minutes. Attendees: 35.
83. Nault, B. A., M. L. Hessney, C. Bornt, R. Hadad and A. Taylor. 2009. New seed treatments for controlling striped cucumber beetles. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 12, 2009. Speaker, 15 minutes. Attendees: 80.
84. **Artz, D. R. and B. A. Nault. 2009. Results of a pollination and pollinator study. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 12, 2009. Co-presenter, 20 minutes. Attendees: 80.
85. Nault, B. A. 2009. Cucumber beetle management using seed treatments. Cornell Fresh-Market Vegetable Winter Educational Meeting. Cornell Cooperative Extension, Vegetable Program. Lockport, NY. January 20, 2009. Speaker, 15 minutes. Attendees: 40.
86. **Artz, D. R. and B. A. Nault. 2009. To bee or not to be: Pumpkin pollination in New York. Cornell Fresh-Market Vegetable Winter Educational Meeting. Cornell Cooperative Extension, Vegetable Program. Lockport, NY. January 20, 2009. Co-presenter, 15 minutes. Attendees: 40.
87. Nault, B. A., C. Hsu, A. Shelton, M. Fuchs, A. Taylor, J. Diaz-Montano, E. Smith, and M. Hessney. 2009. Research summary on research on management of onion insect pests and *Iris yellow spot virus*. New York Onion Industry Council Winter Meeting. Ithaca, NY. January 21, 2009. Speaker, 30 minutes. Attendees: 20.
88. Nault, B. 2008. Update on future insecticides for European corn borer control. Processing Advisory Round Table Meeting between the New York Vegetable Crop Research Association/Council and Cornell Cooperative Extension. Geneva, NY. December 15, 2008. Speaker, 10 minutes. Attendees: 50.
89. **Hsu, C., C. Hoepting, A. Shelton and B. Nault. 2008. *Iris yellow spot virus* in onion fields. CCE Agriculture and Food Systems In-Service. November 13, 2008. Ithaca, NY. Co-presenter, 15 minutes. Attendees: 15.

90. Nault, B. 2008. Onion insect management. Elba Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 5, 2008. Speaker, 15 minutes. Attendees: 40.
91. Nault, B., C. Hsu, E. Smith and J. Diaz-Montano. 2008. Onion thrips and IYSV research update and demonstration. New York State Onion Industry Council Summer Tour and Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 2008. Speaker and co-presenter, 20 minutes. Attendees: 60.
92. Nault, B. and A. Taylor. 2008. Snap bean virus research: A review. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 14, 2008. Speaker and co-presenter, 60 minutes. Attendees: 50.
93. Nault, B., and A. Shelton. 2008. Thrips control using insecticides: What and when to apply? Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 13, 2008. Speaker, 20 minutes. Attendees: 80.
94. Diaz, John M., A. Shelton and B. Nault. 2008. Onion resistance to onion thrips and IYSV. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 13, 2008. Co-presenter, 10 minutes. Attendees: 80.
95. Fuchs, M., C. Hsu, A. Shelton and B. Nault. 2008. Regional survey results and field incidence of IYSV. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 13, 2008. Co-presenter, 20 minutes. Attendees: 80.
96. Nault, B. A., A. Shelton, M. Fuchs, A. Taylor, C. Hsu, E. Smith, P. Jentsch, M. Hessney and H. Grimsland. 2008. Summary of research on onion maggot, onion thrips and *Iris yellow spot virus* in New York. New York Onion Industry Council Winter Meeting, Ithaca, NY. January 22, 2008. Speaker, 15 minutes. Attendees: 30.
97. Nault, B. A. 2008. Cucumber beetle management and pollination by native bees. Fresh-Market Vegetable Winter Meeting. Cornell Cooperative Extension, Vegetable Program. Rochester, NY. January 17, 2008. Speaker, 45 minutes. Attendees: 40.
98. **Hsu, C., B. Nault, C. Hoepting and M. Fuchs. 2007. Seasonal incidence of IYSV and onion thrips. CCE Agriculture and Food Systems In-Service. Ithaca, NY. November 2007. Co-presenter, 15 minutes. Attendees: 15.
99. **Hsu, C., B. Nault, C. Hoepting and M. Fuchs. 2007. Detecting *Iris yellow spot virus* in transplant onions and monitoring spread of virus in transplant vs. direct-seeded fields. Muck Drainage and Onion Twilight Meeting. Sodus, NY. August 2, 2007. Co-presenter, 30 minutes. Attendees: 25.

100. Nault, B. A. 2007. Update on onion maggot, onion thrips and IYSV management. Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 7, 2007. Speaker, 40 minutes. Attendees: 35.
101. Nault, B. A. 2007. Demonstration of onion maggot seed treatment trials and other onion maggot research updates. New York Onion Industry Council Meeting. Oswego, NY. July 11, 2007. Speaker, 10 minutes. Attendees: 60.
102. **Hsu, C., A. M. Shelton and B. A. Nault. 2007. IYSV research update. New York Onion Industry Council Meeting. Oswego, NY. July 11, 2007. Co-presenter, 15 minutes. Attendees: 60.
103. Nault, B. A. 2007. Onion insect management. Onion School. Cornell Cooperative Extension of Orange Co. Newburg, NY. March 15, 2007. Speaker, 30 minutes. Attendees: 55.
104. Nault, B. A. 2007. Control of onion thrips is the first line of defense against IYSV. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 15, 2007. Speaker, 45 minutes. Attendees: 60.
105. Larentzaki, E., B. A. Nault and A. M. Shelton. 2007. Straw-mulch and kaolin clay particle as alternative methods to control onion thrips. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 15, 2007. Co-presenter, 15 minutes. Attendees: 60.
106. Nault, B. A., A. M. Shelton, M. L. Hessney, K. Straight, A. Taylor, P. Jentsch, H. Grimslund and C. Hoepfing. 2007. Ecology and management of onion insect pests: update on projects. NYS Onion Industry Council Winter Meeting. January 25, 2007. Speaker, 15 minutes. Attendees: 25.
107. Nault, B. A., D. Shah and A. Taylor. 2006. Update on insect pest ecology and management in snap bean. Processing Advisory Round Table Meeting between the New York Vegetable Crop Research Association/Council and Cornell Cooperative Extension. Geneva, NY. December 14, 2006. Speaker, 10 minutes. Attendees: 30.
108. Nault, B. A. 2006. A novel approach for controlling onion maggot flies in onion fields. Cornell Cooperative Extension Agriculture and Food Systems In-Service. Ithaca, NY. November 9, 2006. Speaker, 15 minutes. Attendees: 15.
109. Nault, B. A., C. A. Hoepfing and J. Lorbeer. 2006. *Iris yellow spot virus* update and control strategies. Muck Onion Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 1, 2006. Speaker, 45 minutes. Attendees: 50.
110. Nault, B. A. 2006. Insect control using seed treatments in snap beans and dry beans. Vegetable Crops Tillage and Pest Management Twilight Meeting. Cornell Cooperative Extension, Vegetable Program. LeRoy, NY. July 20, 2006. Speaker, 20 minutes. Attendees: 25.

111. Nault, B. A. 2006. Onion maggot seed treatment showcase and product registration updates. New York State Onion Industry Council Summer Tour. Wayne Co. July 11, 2006. Speaker, 10 minutes. Attendees: 60.
112. Nault, B. A. 2006. Onion thrips insecticide timing trials and product registration updates. New York State Onion Industry Council Summer Tour. Wayne Co. July 11, 2006. Speaker, 10 minutes. Attendees: 60.
113. Nault, B. A. 2006. Onion insect management. Summer Seminar Series. Cornell Cooperative Extension of Orange Co. Florida, NY. June 13, 2006. Speaker, 120 minutes. Attendees: 30.
114. Nault, B. A. 2006. Seed treatments for seedcorn maggot and potato leafhopper in dry bean. New York State Dry Bean Meeting. Cornell Cooperative Extension. Farmington, NY. March 16, 2006. Speaker, 15 minutes. Attendees: 65.
115. Nault, B. A. and C. A. Hoepting. 2006. Onion thrips control using insecticides. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 16, 2006. Speaker, 20 minutes. Attendees: 100.
116. Shelton, A. M., J. Zhao, B. A. Nault and J. Plate. 2006. The state of insecticide resistance in onion thrips and thoughts on other control options. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 16, 2006. Co-presenter, 15 minutes. Attendees: 100.
117. Larentzaki, E., A. M. Shelton and B. A. Nault. 2006. Seasonal movement of onion thrips. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 16, 2006. Speaker, 15 minutes. Attendees: 100.
118. Nault, B. A. 2006. Review of onion thrips biology. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 16, 2006. Speaker, 15 minutes. Attendees: 100.
119. Nault, B. A., and A. G. Taylor. 2006. Viruses and aphids everywhere in New York snap bean fields in 2005. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 14, 2006. Speaker, 20 minutes. Attendees: 120.
120. Nault, B. A., R. Straub, J. Nyrop, A. Taylor, M. Hessney, K. Straight, H. Grimsland, C. Hoepting, C. MacNeil and J. van der Heide. 2006. Onion maggot and onion thrips control using insecticides. NYS Onion Industry Council Winter Meeting. February 9, 2006. Speaker, 20 minutes. Attendees: 15.

Outreach Presentations

1. Nault, B. A. 2013. Role of pesticides in New York vegetable production. Cornell Cooperative Extension of Orange County. Tour of the Black Dirt Region in Orange County. September 19, 2013. Pine Island, NY. Speaker, 30 minutes. Attendance: 25.

2. Nault, B. A. 2013. Field course and lecture about general entomology and detrimental and beneficial insects found in vegetable gardens. Science Camp at Geneva City School's North Street Elementary. Geneva, NY. July 30-31, 2013. Speaker, 6 hours total. Attendees: 15.
3. Nault, B. A. 2008. Field course and lecture about detrimental and beneficial insects found in vegetable gardens. Science Camp at North Street Elementary. Geneva, NY. July 29, 2008. Speaker, 3 hours. Attendees: 16.
4. Nault, B. A. 2007. Developing new tools for vegetable insect pest management. Celebration of the 125th anniversary of Cornell University's NYSAES. Geneva, NY. September 15, 2007. Speaker, 6 hours. Attendees: 500.
5. Nault, B. A. 2007. Field course and lecture about detrimental and beneficial insects in vegetable gardens. Science Camp at North Street Elementary. Geneva, NY. July 24, 2007. Speaker, 2 hours. Attendees: 15.
6. Nault, B. A. and G. Loeb. 2006. Field course and lecture about detrimental and beneficial insects in vegetable gardens. Science Camp at North Street Elementary. Geneva, NY. July 13, 2006. Speaker and co-presenter, 2 hours. Attendees: 15.

INTERNET PRESENCE/ DISTANCE LEARNING

I have included a series of comprehensive presentations and one video on the following topics. These presentations can be accessed through my faculty web page and serve as a resource for University faculty, Cooperative extension educators, crop consultants, vegetable growers, industry personnel and other vegetable insect pest management practitioners.

- **Internet Resources**

1. **Onion Disease Management strategies, reports and publications, including those on IYSV and thrips.**
<http://www.colostate.edu/Orgs/VegNet/vegnet/onions.html>
2. **Onion ipmPIPE and Disease Diagnostics, including those on IYSV and thrips, in addition to other resources such as weather, forecasts, markets:** <http://apps.planalytics.com/aginsights/pipehome.jsp>
3. **Onion Maggot Management in Onion**
 See *Presentations* section in Research Links:
<http://web.entomology.cornell.edu/nault/links.html>
4. **Onion Thrips Management in Onion**
 See *Presentations* section in Research Links:
<http://web.entomology.cornell.edu/nault/links.html>
5. **Seedcorn Maggot and Potato Leafhopper Control in Snap Bean**

See *Presentations* section in Research Links:
<http://web.entomology.cornell.edu/nault/links.html>

6. Reducing Risk of Yield Loss by Cucumber Mosaic Virus in Snap Bean

See *Presentations* section in Research Links:
<http://web.entomology.cornell.edu/nault/links.html>

7. Management of Carrot Insect Pests

See *Presentations* section in Research Links:
<http://web.entomology.cornell.edu/nault/links.html>

8. Decision-Making Guide for Bee Supplementation of Pumpkin Fields
http://nysipm.cornell.edu/factsheets/vegetables/cucu/bees_pumpkins.pdf

• **Videos**

- 1) Update on onion thrips management

<http://www.growingproduce.com/gptv/?vid=216>

- 2) Managing soybean aphid and viruses in snap bean

<http://www.growingproduce.com/video/v-managing-soybean-aphid-and-viruses-in-snap-beans/>

PROGRAM WORK TEAMS/ ADMINISTRATIVE LEADERSHIP

- Academic Chair of Cornell's Vegetable Crops Program Work Team (VCPWT) (2006-2009).
- Organized and moderated Vegetable Sessions at the Cornell Cooperative Extension Agriculture and Food Systems In-Service, Ithaca, NY. November 12-13, 2008; November 15-16, 2007; November 8-10, 2006. NOTE: A responsibility of the Academic Chair of the VCPWT is to organize and moderate the vegetable sessions at In-Service workshop.
- Member of the Cornell Vegetable Crop Program Work Team (2001-present)

KEY AUDIENCES AND SCOPE OF IMPACT

- **Nault, B. A.** 2006. Basic and applied research on tracking presence and importance of pests including invasive species. Cornell University's College of Agriculture and Life Sciences Advisory Council. November 17, 2006. Speaker, 15 minute talk. Attendees: 60. University faculty and administrators and stakeholders.

OTHER RELEVANT EXTENSION/ OUTREACH ACTIVITIES, ACCOMPLISHMENTS

- 2013-** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of spirotetramat (Movento)

on onion for onion thrips control for the 2013 season. The Crisis Exemption request was granted by the NYSDEC from February – September 2013.

- 2012-** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of spirotetramat (Movento) on onion for onion thrips control for the 2012 season. The Crisis Exemption request was granted by the NYSDEC from February – September 2012.
- 2011 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of spirotetramat (Movento) on onion for onion thrips control for the 2011 season. The Crisis Exemption request was granted by the NYSDEC from February – September 2011.
- 2011 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of abamectin (Agri-Mek 0.15EC) on onion for onion thrips control for the 2011 season. The Crisis Exemption request was granted by NYSDEC from June- September 2010.
- 2010 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of spirotetramat (Movento) on onion for onion thrips control for the 2010 season. The Crisis Exemption request was granted by the NYSDEC from June – September 2010.
- 2010 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of abamectin (Agri-Mek 0.15EC) on onion for onion thrips control for the 2010 season. The Crisis Exemption request was granted by NYSDEC from June- September 2010.
- 2009-** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of spirotetramat (Movento) on onion for onion thrips control for the 2009 season. The Crisis Exemption request was granted by NYSDEC from June- September 2009.
- 2009 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of abamectin (Agri-Mek 0.15EC) on onion for onion thrips control for the 2009 season. The Crisis Exemption request was granted by NYSDEC from June- September 2009.
- 2009 -** Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of formetanate hydrochloride (Carzol SP) on onion for onion thrips control for the 2009 season. The Crisis Exemption request was NOT granted by NYSDEC

- 2008** - Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of formetanate hydrochloride (Carzol SP) on onion for onion thrips control for the 2009 season.
- 2008** – Submitted a package to the New York State Department of Environmental Conservation that led to a **Specific Emergency Exemption (FIFRA Section 18)** for the use of formetanate hydrochloride (Carzol SP) on onion for onion thrips control. The Crisis Exemption request was granted by NYSDEC from May- September 2008.
- 2008** -Wrote a letter of support that led to the New York Department of Environmental Conservation granting a **FIFRA Section 24(c), Special Local Needs Label**, for the use of Radiant SC on onion for onion thrips control in New York. (Valid through 12/31/2008).
- 2007** – Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** for the use of formetanate hydrochloride (Carzol SP) on onion for onion thrips control. The Crisis Exemption request was granted by NYSDEC from May- September 2007.
- 2006** – Submitted a package to the New York State Department of Environmental Conservation for their consideration of a **Specific Emergency Exemption (FIFRA Section 18)** and later a Crisis Exemption for the use of formetanate hydrochloride (Carzol SP) on onion for onion thrips control. The Crisis Exemption request was granted by NYSDEC from July 24-September 15, 2006.

COURSE INSTRUCTED/COORDINATED

- **PLPA 4190/ ENTOM 4190, Agricultural Application of Plant Health Concepts: Diseases and Pests of New York Crops.** 2 credits Fall Semester. 2010-present. I currently coordinate this course during the summer with Dr. David Gadoury. The focus of the course is to address real world problems in plant pathology and entomology through the application of research and extension. Students tour a variety of diverse agricultural production areas in central New York where commodities such as horticultural crops (fruit and vegetables), field crops (grains), forest and shade trees, turf and biofuel crops are grown. Production of these commodities, identification of major diseases and arthropod pests, and strategies for managing them based on research findings are emphasized. The role of Extension in communicating advancements in disease and pest management also is discussed and growers interact with the group during the tours. The tours also visit some processing facilities to view the end-use of some crops. This is a Fall-listed course that actually takes place between the Spring and Fall semesters in order to observe seasonal diseases and arthropod pests. The course (2 credits) consists of day-

long field trips, usually preceded by an introductory presentation. The schedule includes 8 field trips.

OTHER RELEVANT TEACHING ACTIVITIES

- **Guest Lecturer in Horticulture 3500 – Vegetable Production.** Fall Semester 2006, 2008, 2010, 2012 and 2014, Cornell University, Ithaca. General information was presented about management of vegetable insect pests, major factors that influence decisions about how pests are managed and examples of current vegetable IPM strategies with a focus on New York. Drs. Robin Bellinder and Stephen Reiners are lecturers for this course.
- **Guest Lecturer in Entomology 7670 – Current Topics in Entomology.** Fall Semester 2014, Cornell University, Ithaca. General discussions about research projects in my program including pollination by managed and wild bees in vine crops and management of onion thrips in onion using a variety of tactics. Dr. Tony Shelton is the lecturer for this course.
- **Guest Lecturer in Entomology 2410 – Applied Entomology in the Field: Insect Pests of Agriculture, Urban Environments, and Public Health.** Spring Semesters 2003 through 2010, Cornell University, Ithaca. Presented general information about vegetable production, vegetable production systems, management of vegetable insect pests, major factors that influence how pests are managed and examples of current vegetable IPM strategies. Ward Tingey is the lecturer for this course.
- **Guest Lecturer in Entomology 6004 - Advanced Topics in Entomology.** September 1998, Hampton Roads AREC, Virginia Tech, Virginia Beach, VA. Presented information about the use of transgenic plants and IPM and how transgenic *B.t.t.* potato can be used in an IPM program for Virginia potato growers.

GRADUATE FIELD MEMBERSHIPS

- **Field of Entomology (2001-present)**
- **Field of Plant Protection (2003-present)**

MENTORING

A. Undergraduates

Student's Name	Institution	Date	Program
Rachel Wallace	Cornell University	2016	NYSAES Summer Scholar
Erica Moretti	Allegheny College	2016	NYSAES Summer Scholar
Sierra Short	Mary Baldwin College	2015	NYSAES Summer Scholar
Emily Justus	Purdue University	2014	NYSAES Summer Scholar

Alexandra Gresov	Cornell University	2013	NYSAES Summer Scholar
Martin Holdrege	SUNY-ESF	2012	NYSAES Summer Scholar
Elizabeth Miller	Saint Vincent College (PA)	2012	NYSAES Summer Scholar
Kathryn Cappiello	SUNY-Brockport	2011	NYSAES Summer Scholar

B. Graduate Majors

- **Current:**

Student's Name	Degree	Field of Degree	Institution	Expected	Role
Ashley B. Leach	M.S.	Entomology	Cornell	2016	Advisor
Nelson Milano	M.S.	Entomology	Cornell	2019	Co-Advisor
Ricardo Perez Alvarez	Ph. D.	Entomology	Cornell	2019	Com. member

- **Total Completed:**

Student's Name	Degree	Field of Degree	Institution	Completed	My Role
Erik A. Smith	Ph. D.	Entomology	Cornell	2015	Advisor
Daniel Olmstead	M.S.	Entomology	Cornell	2015	Com. member
Elaine J. Fok	M.S.	Entomology	Cornell	2013	Advisor
Saurabh Gautam	M.S.	Entomology	Cornell	2013	Com. member
Erik A. Smith	M.S.	Entomology	Cornell	2010	Advisor
John Diaz-Montano	Ph. D.	Entomology	Cornell	2010	Com. member
Caroline Boutard-Hunt	M.S.	Entomology	Cornell	2008	Advisor
Sahithi Sanaka	M.P.S.	Plant Protection	Cornell	2008	Com. member
Maria Derval Diaz	M.S.	Entomology	Cornell	2006	Com. member

C. Post-doctoral Associates and Research Associates

Name	PhD Institution (year)	Title	Period
Rebecca Schmidt-Jeffris	Washington State Univ. (2015)	Post-doc	5/2015 - present
Anders S. Huseeth	Univ. of Wisconsin (2013)	Post-doc	6/2013 – 10/2014
Jessica D. Petersen	Iowa State University (2010)	Post-doc	4/2011 – 7/2014
Cynthia L. Hsu	Univ. of Minnesota (2007)	Res. Assoc.	5/2007 – 8/2012

PROFESSIONAL SOCIETIES

Entomological Society of America (1989-present)

The American Phytopathological Society (2008-present)
Georgia Entomological Society (1988-2011)

NATIONAL AND MULTI-STATE PROJECTS

Member, W2008: Biology and management of *Iris Yellow Spot Virus* (IYSV), other diseases and thrips in onions (2012-present).

Member, NC1173: Sustainable Solutions to Problems Affecting Bee Health (2012-present).

Member, W168: Environmental & Genetic Determinants of Seed Quality and Performance (2002-present)

Member, W1008: Biology and Management of *Iris Yellow Spot Virus* (IYSV) and Thrips in Onions (2007-2011)

RESEARCH AND EXTENSION GRANT REVIEW PANELS

2010 USDA NIFA - Pest and Beneficial Insects in Plant Systems Program – FY 2010. Served on panel. Washington, DC. Sept. 12-17, 2010.

2010 Southern Region Integrated Pest Management Center Integrated Pest Management Grants Program– FY 2010. Served on panel. Raleigh, NC. April 5, 2010.

2008 USDA CSREES Pest Management Alternatives Program. Served on national panel. Washington, D.C. April 22-24, 2008.

2007 USDA CSREES Pest Management Alternatives Program. Served on national panel. Washington, D.C. April 24-25, 2007.

2006 NYS IPM Program Grant Review Committee – Vegetables. Served on panel. Geneva, NY. January 12, 2006.

EDITORIAL BOARDS

2015- present Subject Editor, *Bulletin of Entomological Research*

2005 – present Discipline Editor, *The Integrated Crop and Pest Management Guidelines for Vegetable Production*, Cornell Cooperative Extension.

2004 – 2008 Editorial Board Member, *The Journal of Entomological Science*.

COMMITTEE ASSIGNMENTS

- **International/National:**

- Chair, Multi-State Project W2008: Biology and Management of *Iris yellow spot virus* (IYSV), Other Diseases, and Thrips in Onions (2013).
- Vice Chair, Multi-State Project W2008: Biology and Management of *Iris yellow spot virus* (IYSV), Other Diseases, and Thrips in Onions (2012).

- Secretary, Multi-State Project W1008: Biology and Management of *Iris yellow spot virus* (IYSV) and Thrips in Onions (2011).
- Member, Search Committee for Senior Lecturer in Plant Protection, Department of Ecology, Swedish University of Agricultural Sciences, Uppsala, Sweden (2012).
- Judging Panel Member for the 2007, 2008 and 2009 Award for Excellence in Integrated Pest Management, granted by the Entomological Foundation (2007-2009)
- **State/Local:**
 - Co-Chair, Program Committee. Eastern Branch-Entomological Society of America Meeting, Harrisburg, PA (2011)
 - Chair, Organizer and Moderator of the Student Paper and Student Display Competitions at the Eastern Branch-Entomological Society of America Meeting, Syracuse, NY (2008). There were 21 and 11 entries for the paper and display competitions, respectively. Awards were given to the top 3 in each Competition.
 - Chair, Organizer and Moderator of the Student Paper and Student Display Competitions at the Eastern Branch-Entomological Society of America Meeting, Harrisburg, PA (2007). There were 23 and 7 entries for the paper and display competitions, respectively. Awards were given to the top 3 in each Competition.
- **New York State Agricultural Experiment Station**
 - Chair, NYSAES Strategic Planning Committee (2013-2014)
 - Chair, Faculty Advisory Committee (2008-2014).
 - Member of the Fruit and Vegetable Research Unit Review Panel for NYSAES in Geneva (2007-present).
- **College:**
 - Member of Promotion and Tenure Committee for an Assistant Professor in CALS, Cornell University, Ithaca (2011)
 - Member of Search Committee for a Plant Virologist, Department of Plant Pathology, Cornell University, NYSAES, Geneva (2003).
- **Department:**
 - Mentoring Committee for Kyle Wickings (2013-present), Chair
 - Mentoring Committee for Katja Poveda (2012-present), Member
 - Mentoring Committee for Scott McArt (2015-present), Member
 - Field of Entomology Graduate Student Admissions Committee (2013-present), Member.
 - Department of Entomology Executive Committee (2016-present)

- Department of Entomology NYSAES Summer Scholars Research Program Committee (2011-present), Chair (2011-present).
- Department of Entomology Awards Committee (2011- 2015), Chair 2014-2015.
- Department of Entomology Search Committee for a Soil Arthropod Ecologist/ Turfgrass Entomologist (2012-2013), Chair
- Department of Entomology Extension and Outreach Committee (2010-2012), Member.
- Department of Entomology Strategic Planning Committee (2010-2011), Chair.
- Department of Entomology Merger Committee (2009-2010), Member.
- Search Committee for an Entomologist, Extension Associate, Department of Entomology, Cornell University, NYSAES, Hudson Valley Laboratory, Highland, NY (2005-2006), Member.
- Field of Entomology Graduate Student Admissions Committee (2004-2006), Member.

REVIEWING

- **Referee for Journal articles (2007-present)**

Journal	Number of manuscripts reviewed	
	2007 - 2014	2015
<i>American Potato Journal</i>	1	
<i>Australian Journal of Entomology</i>	1	
<i>BioControl</i>	1	
<i>Bulletin of Entomological Research</i>		1
<i>Crop Protection</i>	4	1
<i>Entomologia Experimentalis et Applicata</i>	2	1
<i>Environmental Entomology</i>	6	1
<i>Florida Entomologist</i>	1	
<i>Heredity</i>	1	
<i>Journal of Agric. and Urban Entomology</i>	1	
<i>Journal of Agricultural Entomology</i>	1	
<i>Journal of Applied Entomology</i>		1
<i>Journal American Society Hort. Sci.</i>	1	
<i>Journal of Cotton Science</i>	1	
<i>Journal of Economic Entomology</i>	6	1
<i>Journal of Entomological Science</i>	1	
<i>Journal of Insect Science</i>	2	
<i>Journal of Pollination Ecology</i>	1	
<i>Pest Management Science</i>	3	1
<i>Phytopathology</i>	1	
<i>Plant Health Progress</i>		1
<i>Plant Disease</i>	4	
<i>Plant Pathology</i>	1	
<i>PloS One</i>	1	1
<i>SpringerPlus</i>		1
<i>Terrestrial Arthropod Reviews</i>	1	
TOTAL	42	9

- **Grant Proposals (Non-panel)**

1. Reviewed two proposals for the Citrus Research and Development Foundation (2015)
2. Reviewed two Hatch projects for Cornell University (2015)
3. Reviewed a new Multi-State Project for the Northeast Region (2015)
4. Reviewed a proposal for the Citrus Research and Development Foundation (2013)
5. Reviewed nine proposals for the NYS IPM Program – Vegetables (2012)
6. Reviewed two The Ohio State University – OARDC seed grants (2009)
7. Reviewed a BARD proposal (2008)
8. Reviewed Hatch projects for Cornell University (10 total)

- **Promotion and Tenure Packages (Other Universities)**
 - Reviewed promotion and tenure package for an Associate Professor at the Swedish University of Agricultural Sciences, Department of Ecology (2014)
 - Reviewed promotion and tenure package for an Assistant Professor at Texas A&M University, Department of Entomology (2011)

PROFESSIONAL LEADERSHIP

- **Entomological Society of America Meeting Annual Meetings**
 1. Co-organized and contributed to a Section Symposium at the 2014 Entomological Society of America Annual Meetings in Portland, OR. The subject pertained to effects of cropping system landscapes on the ecology and management of insect vectors and transmitted pathogens.
 2. Co-organized and contributed to Symposium at the 2006 Entomological Society of America Annual Meetings in Indianapolis, IN. The subject pertained to ecology and pest management of insects that transmit viruses to vegetable crops.
- **Multi-State Project W1008 and W2008 Biology and Management of *Iris yellow spot virus* (IYSV), Other Diseases, and Thrips in Onions**
 1. Chair (2013)
 2. Vice Chair (2012)
 3. Secretary (2011)
- **Cornell's Vegetable Crops Program Work Team**
 - Academic Chair (2006-2009)
- **Leadership Development Workshop:**
 1. Participated in a 5-day CALS Faculty Leadership Workshop in Trumansburg, NY in January 2008 to improve self awareness, conflict resolution and team building.
 2. Participated in a 5-day workshop in Willard, NY in May 2004 to improve self awareness and discuss the mission, vision and strategic planning for NYSAES.