

CURRICULUM VITAE

NAME: BRIAN A. NAULT
DEPARTMENT: 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

- 2018 **Excellence in Multistate Research Award**, Western Association of Agricultural Experiment Station Directors
- 2018 **Entomological Foundation Award for Excellence in IPM**, Entomological Society of America's Eastern Branch Nominee.
- 2011 **Excellence in IPM Award**, 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)

GRANT SUPPORT

- **Summary of Funding (indirect + direct costs) as Principal and Co-Principal Investigator and Industry-Sponsored Funds:**

<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	\$3,015,150	\$7,116,514	\$894,056	\$11,025,720
Total for Career	\$3,079,524	\$7,219,861	\$976,956	\$11,276,341

COMPETITIVE GRANTS

2019

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2019. B. Nault (PI). Exploring traditional and novel management tactics for major insect pests of onion. \$29,004. (1 yr).

New York State Vegetable Research Association/Council, 2019. B. Nault (PI). Optimizing the performance of insecticides to manage corn earworm in conventional and organic sweet corn production systems. \$20,025 (1 yr).

New York Farm Viability Institute, 2019. C. Filgueiras (PI), B. Nault, E. Shields and D. Willet. Protecting onions in New York with Entomopathogenic Nematodes \$98,671 (2 yrs).

2018

USDA/NIFA Specialty Crops Research Initiative – Standard Research and Extension Project, 2018. H. Pappu, B. Nault, C. Cramer, J. Dung and M. Havey (Co-PDs), Development and delivery of integrated management packages for the most serious pest and diseases threatening the US Allium industries. \$3,200,000; Nault's portion \$431,241 (3.5 yrs).

USDA/NIFA Crop Protection Pest Management Program, 2018. S. Fleischer (PI), B. Nault, J. Ali, E. Grundberg and T. Rusinek (Co-PIs). Solutions for managing Allium leafminer: a new invasive threat to Allium crops in North America. \$325,000; Nault's portion \$55,992 (2 yrs).

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2018. B. Nault (PI). Management of onion insect pests and impact on associated diseases. \$20,000. (1 yr).

New York State Vegetable Research Association/Council, 2018. B. Nault (PI). Advancing pest management in selected vegetable crops. \$20,000.

2017

USDA/NIFA Organic Agriculture Research and Extension Initiative Program, 2017. Managing the most significant biotic challenges for organic onion production across the Great Lakes Region. B. Nault (PI), M. Havey, F. Hay and S. Pethybridge (Co-PIs). \$836,804 (3 yrs).

Foundation for Food and Agriculture Research's Rapid Outcomes Agriculture Research Program, 2017, B. Nault (PI). Identifying short-term solutions for managing Allium leafminer in Allium crops. \$65,000.

New York Farm Viability Institute, 2017. B. Nault (PI). Identifying immediate solutions for managing Allium leafminer in Allium crops. \$65,000.

New York State Department of Agriculture and Markets (Cabbage Research and Development Program), 2017. B. Nault (PI). Evaluating insecticides for managing diamondback moth in cabbage. \$6,000. (1 yr).

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2017. B. Nault (PI). Evaluating novel tools, delivery techniques and application strategies for managing onion insect pests. \$20,000. (1 yr).

New York State Vegetable Research Association/Council, 2017. B. Nault (PI). Advancing corn earworm management in sweet corn, seedcorn maggot control in beans, and an update on CMV in bean fields. \$20,322.

2016

Federal Capacity Funds Initiative Program, 2016. B. Nault (PI) and J. Scott. Mitigating spinetoram resistance in onion thrips in onion using a resistance monitoring and management program. \$90,000 (3 yrs).

Federal Capacity Funds Initiative Program, 2016. A. Seaman (PI), C. Smart and B. Nault. Testing the efficacy of insecticides and fungicides allowed for organic vegetable production. \$88,584 (3 yrs). Nault's portion \$30,000.

New York State Department of Agriculture and Markets (Onion Research and Development Program), 2016. B. Nault (PI). Evaluating novel tools, delivery techniques and application strategies for managing onion insect pests. \$24,473. (1 yr).

New York State Vegetable Research Association/Council, 2016. B. Nault (PI). Evaluating novel approaches for European corn borer and corn earworm management in sweet corn and snap bean. \$15,730.

IR-4 Project, 2016. B. Nault (PI). Performance of biopesticides on striped cucumber beetle management in organic muskmelon. \$15,000 (1 yr).

2015

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).

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).

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 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 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.

2014

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).

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 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 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.

2013

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 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.

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.

2012

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. (Co-PIs). 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).

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).

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 Department of Agriculture and Markets (Onion Research and Development Program), 2012. B. Nault (PI) and C. Hoepfing. Novel insecticides and uses for onion insect pest management. \$12,000 (1 yr).

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).

2011

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).

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 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).

2010

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

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, 2010. B. Nault (PI) and C. Hoepfing. Improving pest management by optimizing nitrogen inputs and novel insecticides in fresh market onions. \$36,257 (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 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).

2009

- 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).
- 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 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 Integrated Pest Management Program, 2009. B. Nault (PI). Reducing onion thrips populations in onion by optimizing nitrogen levels at planting. \$5,000 (1 yr).
- IR-4 Project, 2009. A. Taylor (PI) and B. Nault. IR-4 industry supported research. \$5,000 (1 yr).

2008

- 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 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).

2007

- 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).
- 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).
- New York Farm Viability Institute, 2007. A. Shelton (PI), M. Fuchs, B. Nault and C. Hoepfing. Ensuring profitability in New York onions by managing onion thrips and *Iris yellow spot virus*. \$125,000 (2 yrs)
- 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. Hoepfing, and M.R. McDonald. Onion seed treatments and coatings for efficient early season pest management. \$19,000 (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).

2006

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), 2006. B. Nault (PI) and C. Hoepting. Protecting onion transplants from onion maggot and onion thrips. \$6,000 (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 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 Dry Bean Association, 2006. B. Nault (PI). Economics of novel and conventional insect pest management strategies for dry bean. \$3,000. (1 yr).

2005

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).

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 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).

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).

2004

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).

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).

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 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).

2003

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 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 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).

2002

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 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 Vegetable Research Association/Council, 2002. B. Nault (PI), H. Dillard, A. McFaul and C. Hoepting. 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. Hoepting. Cornell bean/aphid/virus multi-disciplinary study: seed treatment and foliar investigation. \$10,000 (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).

2001

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, 2001. B. Nault (PI). Landscape ecology and management of principal arthropod pests of vegetable crops. \$35,000 (5 yrs).

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).

INDUSTRY SUPPORT

2001-2018

B. Nault (PI). Management of insect pests of onion, potato, vine crops, snap bean, dry bean and pepper. (\$894,056 over 17 yrs through 2018; \$118,000 will be generated in in 2019).

PENDING GRANTS/CONTRACTS/GIFTS

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

98. Alyokhin, A., B. Nault and B. Brown. 2019. Soil conservation practices for insect pest management in highly disturbed agroecosystems. *Entomol. Exp. Appl.* (accepted).
97. *Leach, A. B., F. Hay, R. S. Harding, K. C. Damann and B. A. Nault. 2019. Relationship between onion thrips (*Thrips tabaci*) and *Stemphylium versicarium* in the development of Stemphylium leaf blight in onion. *Annals Appl. Biol.* (*in press*).
96. *Milano, N., A. Iverson, B. A. Nault, S. McArt. 2019. Comparative survival and fitness of bumble bee colonies in natural, suburban, and agricultural landscapes. *Agric. Ecosyst. Environ.* 284: <https://doi.org/10.1016/j.agee.2019.106594>.
95. Perez, R. M., B. A. Nault and K. Poveda. 2019. Effectiveness of augmentative biological control depends on landscape context. *Scientific Reports.* 9: 8664. <https://doi.org/10.1038/s41598-019-45041-1>.
94. *Leach, A. B., M. Fuchs, R. Harding and B. A. Nault. 2019. Iris yellow spot virus prolongs the adult lifespan of its primary vector, onion thrips (*Thrips tabaci*). *J. Insect Sci.* 19(3): 8; 1–4. <https://doi.org/10.1093/jisesa/iez041>.
93. *Moretti, E. A., R. S. Harding, J. G. Scott and B. A. Nault. 2019. Monitoring onion thrips (Thysanoptera: Thripidae) susceptibility to spinetoram in New York onion fields. *J. Econ. Entomol.* 112(3): 1493–1497.
92. *Leach, A. B., C. A. Hoepting and B. A. Nault. 2019. Grower adoption of insecticide resistance management practices increase with extension-based program. *Pest Management Science* 75: 515–526.
91. **Schmidt-Jeffris, R., and B. A. Nault. 2018. Crop spatiotemporal dominance and management practices affect populations of a pest and its potential predators. *Agric. Ecosyst. Environ.* 265: 331-339.
90. Perez-Alvarez, R., B. A. Nault and K. Poveda. 2018. Contrasting effects of landscape composition on crop yield mediated by specialist herbivores. *Ecol. Appl.* 28(3): 842–853.
89. *Leach, A., M. Fuchs, R. Harding, R. Schmidt-Jeffris and B. A. Nault. 2018. Importance of transplanted onions contributing to late-season *Iris yellow spot virus* epidemics in New York. *Plant Dis.* 102(7): 1264-1272.
88. *Leach, A., S. Reiners, M. Fuchs and B. A. Nault. 2017. Evaluating integrated pest management tactics for onion thrips and pathogens they transmit to onion. *Agric. Ecosyst. Environ.* 250: 89-101.

87. **Schmidt-Jeffris, R., and B. A. Nault. 2017. Residual activity of diamide insecticides for *Ostrinia nubilalis* control in processing snap bean. *Crop Prot.* 98: 116-123.
86. *Smith, E. A., E. J. Shields, and B. A. Nault. 2017. Onion thrips colonization of onion fields bordering crop and non-crop habitats in muck cropping systems. *J. Appl. Entomol.* 141(7): 574–582.
85. Jacobson, A. L., B. A. Nault, E. L. Vargo, and G. G. Kennedy. 2016. Restricted gene flow among lineages of *Thrips tabaci* supports genetic divergence among cryptic species groups. *PloS ONE* 11(9): e0163882.
84. **Schmidt-Jeffris, R., and B. A. Nault. 2016. Anthranilic diamide insecticides delivered via multiple approaches to control vegetable pests: A case study in snap bean. *J. Econ. Entomol.* 109(6): 2479-2488.
83. *Smith, E. A., E. J. Shields, and B. A. Nault. 2016. Impact of abiotic factors on onion thrips (Thysanoptera: Thripidae) aerial dispersal in an onion ecosystem. *Environ. Entomol.* 45(5): 1115- 1122.
82. **Schmidt-Jeffris, R., A. S. Huseeth, and B. A. Nault. 2016. Estimating *E*-race 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.* 109(5): 2210-2214.
81. 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.* 109(4): 1667-1676.
80. 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.* 109(4): 1772-1778.
79. 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.
78. *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.
77. **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.
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ABSTRACTS OF PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. Nault, B. A., S. Fleischer, E. Grundberg, T. Rusinek, T. Elkner, R. Harding and B. Lingbeek. 2019. What we know and don't know about the *Allium* leafminer's threat to the U.S. *Allium Industry*. International Allium Conference, Madison, WI. July 24-27.
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TECHNICAL ARTICLES I: BOOK CHAPTERS

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TECHNICAL ARTICLES II: PROCEEDINGS

- *Leach, A., S. Reiners, M. Fuchs and B. A. Nault. 2018. Unravelling the interactions among variety, fertility, yield, onion thrips and diseases, and implications for improved management practices. Empire State Producers EXPO, January 17, 2018. Syracuse, NY. <http://www.hort.cornell.edu/expo/proceedings/2018/Onions%20Unravelling%20Interactions%20Ashely%20Leach.pdf>
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18. Nault, B. A. and J. Speese III. 1999. Summary of arthropod pest management research for vegetables and agronomic crops grown in eastern Virginia, 1998. Virginia Cooperative Extension. Report No. 398.
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7. **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.
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25. 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.

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48. Nault, B.A. and J. S. Speese III. 1998. Insect management in sweetpotatoes. Hayman Heads Up! Virginia Eastern Shore Corporation. Oct. Issue.
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TRADE PUBLICATIONS

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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. Hoeping. 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.
14. Nault, B. A., R. W. Straub and A. G. Taylor. 2005. Strategies that may be used to enhance onion maggot management. *Onion World*. 21(4) 8.
15. Shelton, A. M., A. J. Landers, B. A. Nault, J. D. Plate and J. Zhao. 2005. Control of onion thrips by selecting the right insecticide and sprayer. *Onion World*. 21(4): 8.

OTHER PUBLICATIONS

Reiners, S., B. Nault, M. McGrath, M. Helms, A. Landers, A. Seaman and P. Curtis. *The integrated crop and pest management guidelines for vegetables*. Cornell Cooperative Extension. PMEP, Ithaca, NY. (updated annually)

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. Nault, B. A., S. Fleischer, E. Grundberg, T. Rusinek, T. Elkner, R. Harding and B. Lingbeek. 2019. What we know and don't know about the *Allium* leafminer's threat to the U.S. *Allium* Industry. International *Allium* Conference, Madison, WI. July 25, 2019.
2. *Moretti, E., and B. A. Nault. 2019. Influence of abiotic factors on onion maggot (*Delia antiqua*) population dynamics and their damage in commercial onion fields. *Entomological*

- Society of America's Eastern Branch meeting. Blacksburg, VA. March 10, 2019. (**Note: Awarded First Place in the Undergraduate/MS Paper Competition**).
3. *Moretti, E., and B. A. Nault. 2019. Monitoring onion thrips (Thysanoptera: Thripidae) susceptibility to spinetoram in New York onion fields. Entomological Society of America's Eastern Branch meeting. Blacksburg, VA. March 11, 2019.
 4. Harding, R., and B. A. Nault. 2019. Onion maggot control in onion: Is it possible to get off the insecticide treadmill? Entomological Society of America's Eastern Branch meeting. Blacksburg, VA. March 9, 2019.
 5. *Leach, A., C. Hoepting and B. A. Nault. 2018. Increasing use of action thresholds in managing onion thrips on New York onion farms. ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, CA. November 11-14, 2018.
 6. Fleischer, S., T. Elkner, C. McGrady, D. Roberts, B. A. Nault, T. Rusinek, E. Grundberg, J. Ali, S. Ray and B. Lingbeek. 2018. Allium leafminer: A new invasive threat to Allium crops in North America. ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, CA. November 13, 2018.
 7. *Leach, A., F. Hay, R. Harding, and B. Nault. 2018. Relationship between *Stemphylium vesicarium* and onion thrips (*Thrips tabaci*) in the development of Stemphylium leaf blight disease. Poster Presentation. International Congress of Plant Pathology. Boston, MA. July 29-August 3, 2018.
 8. *Leach, A., C. Hoepting and B. Nault. 2018. Successful adoption of action threshold-based insecticide programs for thrips management in onion. 9th International IPM Symposium. Baltimore, MD. March 21, 2018. (**Note: Awarded First Place in the Student Poster Competition**).
 9. *Leach, A., S. Reiners and B. Nault. 2018. Evaluating effects of nitrogen fertilizer and insecticide use in managing onion thrips (*Thrips tabaci*) in onion. Entomological Society of America's Eastern Branch meeting. Annapolis, MD. March 18, 2018. (**Note: Awarded First Place in the PhD Student Competition**).
 10. *Leach, A., C. Hoepting and B. Nault. 2017. Increasing adoption of action threshold-based insecticide programs on New York onion farms. W3008 Multi-State Project Annual Meeting. Grand Rapids, MI. December 4, 2017.
 11. *Leach, A., M. Fuchs, R. Harding, R. Schmidt-Jeffris and B. Nault. 2017. Evaluating major sources of *Iris yellow spot virus* in New York. Entomological Society of America Annual Meeting, November 6, 2017, Denver, CO. (**Note: Awarded First Place in the Graduate Student Virtual Poster Competition**).
 12. *Milano, N. J., S. H. McArt and B. A. Nault. 2017. The effects of landscapes and farm practices on the performance of the common eastern bumble bee (*Bombus impatiens*). Entomological Society of America, Denver, CO, Nov. 5, 2017.
 13. **Schmidt-Jeffris, R.A. and B.A. Nault. 2017. Crop spatiotemporal dominance and management practices affect populations of a pest and natural enemies. South Carolina Entomological Society 63rd Annual Meeting, October 5-6 2017, Georgetown, SC.

14. Nault, B.A. 2016. Onion thrips dispersal in an onion ecosystem and implications for management. National Allium Research Conference. Savannah, GA. December 1, 2016.
15. *Leach, A.B., S. Reiners, and B.A. Nault. 2016. Integrating nitrogen rate, onion cultivar, and insecticide program to optimize onion thrips management in onion. National Allium Research Conference. Savannah, GA. December 1-3, 2016. (**Note: Awarded First Place in the Graduate Student Poster Competition**).
16. *Leach, A.B., S. Reiners, and B.A. Nault. 2016. Advancing onion thrips (*Thrips tabaci*) control and onion production with a multi-faceted IPM program. XXV International Congress of Entomology. Orlando, FL. September 29, 2016. (**Note: Awarded Best Presentation in the Graduate Student Oral Competition: Integrated Pest Management and Sustainable Agriculture: Thrips and Others**).
17. **Schmidt-Jeffris, R.A., and B.A. Nault. 2016. Effects of corn grown in organically and conventionally managed soil on *Ostrinia nubilalis* behavior and populations. XXV International Congress of Entomology. Orlando, FL. September 26, 2016.
18. *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**).
19. **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.
20. 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.
21. **Schmidt-Jeffris, R., A. Huseh, 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.
22. 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.
23. Hoepfing, 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.
24. Nault, B.A. 2014. Incorporating host plant resistance into an IPM program for onion thrips. National Allium Research Conference. December 5, 2014. Scottsdale, AZ.
25. Hoepfing, 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.

26. 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.
27. **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.
28. *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**).
29. 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.
30. 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.
31. *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**).
32. **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.
33. **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.
34. *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**).
35. *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.
36. **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.
37. *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.

38. *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.
39. **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. Entomological Society of America Annual Meeting, November 15, 2011. Reno, NV. Poster presentation
40. *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.
41. **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.
42. **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.
43. 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.
44. Nault, B. 2010. Developing an insecticide use strategy for thrips management in onion. Entomological Society of America Annual Meeting, San Diego, CA.
45. Nault, B., C. Hsu and C. Hoepting. 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.
46. **Hsu, C. L., B. A. Nault and C. A. Hoepting. 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.
47. *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.
48. Nault, B. A., C. L. Hsu and C. Hoepting. 2010. Managing onion thrips with insecticides – Overcoming a multitude of challenges. National Allium Research Conference. December 9-10, 2010. Reno, NV.
49. Nault, B. A. 2010. Onion insect management. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 16, 2010.
50. Nault, B. A. 2010. Update on viruses in beans. Cornell Cooperative Extension Agriculture and Food Systems November In-Service, Ithaca, NY. November 18, 2010.
51. **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.

52. Nault, B. A., C. Hsu, E. Smith, A. Shelton, M. Fuchs and C. Hoepting. 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.
53. 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.
54. **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.
55. *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**).
56. 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**).
57. **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.
58. **Hsu, C. L., C. Hoepting, 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.
59. **Hsu, C. L., C. Hoepting, 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.
60. Hoepting, 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.
61. Nault, B. A. 2009. Controlling onion thrips with insecticides. The IX International Symposium on Thysanoptera and Tospoviruses. Main Beach, Queensland, Australia. September 4, 2009.
62. 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.
63. 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.

64. 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.
65. *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).**
66. Nault, B. A., C. Hsu, E. Smith, A. Shelton, M. Fuchs, C. Hoepfing and A. DiTommaso. 2008. Identifying sources of IYSV in New York's cropping system. 2008 National Allium Research Conference, Savannah, GA.
67. **Hsu, C., C. Hoepfing, 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.
68. 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.
69. **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.
70. **Hsu, C. L., C. Hoepfing, 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.
71. *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).**
72. 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.
73. 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.
75. *Smith, E., C. Hsu, M. Fuchs, A. Shelton, C. Hoepfing 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.
76. *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.

77. Diaz-Montano, J., A. M. Shelton, B. A. Nault and M. Fuchs. 2008. Screening for resistance and impact on onion thrips (*Thrips tabaci* Lindeman) and *Iris yellow spot virus* on onion growth. Eastern Branch - Entomological Society of America Annual Meeting, Syracuse, NY.
78. 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.
79. *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.
80. **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.
81. 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**).
82. 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.
83. 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.
84. **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.
85. 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.
86. 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.
87. Nault, B. A. and R. V. Hazzard. 2005. The role of landscape on predator dispersal and naturally occurring biological control. In Section F Symposium: Advances in understanding insect dispersal to improve pest management in vegetable systems. Entomological Society of America Annual Meeting, Fort Lauderdale, FL.

88. Larentzaki, E., B. A. Nault and A. Shelton. 2005. The effect of habitat and agricultural practices on onion thrips dynamics in onions. Entomological Society of America Annual Meeting, Fort Lauderdale, FL.
89. Gildow, F. E., S. Fleischer, B. Nault and D. Shah. 2005. The soybean aphid is an efficient vector of cucumber mosaic virus strains infecting snap bean. Entomological Society of America Annual Meeting, Fort Lauderdale, FL.
90. Shelton, A., J.-Z. Zhao, B. A. Nault, J. Plate, E. Larentzaki and F. Musser. Patterns of resistance to insecticides in onion thrips in New York. 2005. Entomological Society of America Annual Meeting, Fort Lauderdale, FL.
91. Nault, B. A. 2005. Reproductive biology of *Thrips tabaci* from New York onion fields. VIII International Symposium on Thysanoptera and Tospoviruses, Asilomar Conference Grounds, Pacific Grove, CA.
92. *Badenes-Perez, F. R., B. A. Nault and A. M. Shelton. 2005. Pest management techniques adapted to farmers' needs? The case of trap crops to manage diamondback moth and potential use in developed and developing countries. International Conference on Agricultural Research for Development: European Responses to Changing Global Needs. Swiss Federal Institute of Technology, Zurich, Switzerland.
93. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. 2005. Using yellow rocket as a trap crop for diamondback moth. Entomological Society of America – Eastern Branch Meeting, Harrisburg, PA.
94. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. 2004. Can a weed be used to control an insect pest? Entomological Society of America Annual Meeting, Salt Lake City, UT. (**Note: Awarded President's Prize [first place] in Student Paper Competition in Section F: Crop Protection Entomology**).
95. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. 2004. Potential use of trap cropping to control diamondback moth in crucifers. International Congress of Entomology 2004, Brisbane, Australia.
96. *Badenes-Perez, F. R., B. A. Nault and A. M. Shelton. 2004. Increasing the effectiveness of trap cropping systems for diamondback moth. Entomological Society of America – Eastern Branch Meeting, New Haven, CT. (**Note: Awarded first place in Student Poster Competition - All Sections**).
97. *Badenes-Perez, F. R., B. A. Nault and A. M. Shelton. 2004. Dynamics of diamondback moth oviposition on cabbage in the presence of its trap crops yellow rocket and glossy collard. Entomological Society of America – Eastern Branch Meeting, New Haven, CT. (**Note: Awarded second place in Student Paper Competition – All Sections**).
98. Nault, B. A., F. R. Badenes-Perez, F. R. Musser, J. P. Nyrop and A. M. Shelton. 2003. Developing a management strategy for diamondback moth in cabbage using trap crops. Center for IPM Semi-Annual Meeting, Raleigh, NC.
99. Nault, B. A., D. A. Shah and A. C. McFaul. 2003. Describing the temporal dynamics of aphid dispersal and virus spread in snap bean fields in New York. Entomological Society of America Annual Meeting, Cincinnati, OH.

100. Shelton, A. M., B. A. Nault, J. D. Plate, A. J. Landers, J.-Z. Zhao and F. R. Musser. 2003. Resistance management of onion thrips in commercial onion fields in New York. Entomological Society of America Annual Meeting, Cincinnati, OH.
101. Musser, F. R., B. A. Nault, J. P. Nyrop and A. M. Shelton. 2003. Diamondback moth management in cabbage using collards as a trap crop. Entomological Society of America Annual Meeting, Cincinnati, OH.
102. *Badenes-Perez, F. R., B. A. Nault and A. M. Shelton. 2003. Optimizing the effectiveness of trap crops for diamondback moth in cabbage. Entomological Society of America Annual Meeting, Cincinnati, OH. (*Note: Awarded President's Prize [first place] in Student Paper Competition in Section F: Crop Protection Entomology*).
103. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. 2003. Diamondback moth in crucifers: Moving forward from a history of successes and failures. Entomological Society of America Annual Meeting, Cincinnati, OH.
104. *Werling, B. and B. A. Nault. Effect of distance from onion field edges and bordering landscape on onion maggot flight activity and oviposition. 2003. Entomological Society of America Annual Meeting, Cincinnati, OH.
105. Shah, D. A., B. A. Nault, H. R. Dillard, S. Mazumdar-Leighton and D. Gonsalves. 2003. Incidence and spatial patterns of viruses in New York Snap Beans in 2002. The American Phytopathological Society Annual Meeting, Charlotte, NC.
106. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. 2003. Screening for trap crops for diamondback moth in cabbage. Entomological Society of America – Eastern Branch Meeting, Harrisburg, PA. (*Note: Awarded third place in Student Paper Competition – All Sections*).
107. Nault, B. A., D. A. Shah, H. R. Dillard, S. Mazumdar-Leighton, D. Gonsalves and A. McFaul. 2002. Aphid dispersal and incidence of viruses in New York snap bean and alfalfa fields. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.
108. *Badenes-Perez, F. R., A. M. Shelton and B. A. Nault. Screening for trap crops for diamondback moth in cabbage. 2002. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL. (*Note: Awarded President's Prize [first place] in Student Paper Competition in Section F: Crop Protection Entomology*).
109. *Werling, B. P. and B. A. Nault. Patterns of onion maggot, *Delia antiqua* (Diptera: Anthomyiidae) adult activity in relation to onion field edges in New York. 2002. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.
110. Plate, J., A. M. Shelton, B. A. Nault and J.- Z. Zhao. 2002. A rapid assay for monitoring onion thrips resistance to lambda-cyhalothrin (Warrior T). Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.
111. Shelton, A. M., B. A. Nault, F. R. Musser and F. R. Badenes-Perez. 2002. Can we move beyond traditional trap cropping to “dead-end” trap cropping? Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

112. Nault, B. A., F. R. Badenes-Perez, F. R. Musser, J. P. Nyrop and A. M. Shelton. 2002. Designing and developing trap crops for diamondback moth. Center for IPM Semi-Annual Meeting, Orlando, FL.
113. Nault, B. A., R. L. Groves and J. Speese III. Seasonal patterns of adult thrips dispersal in eastern Virginia tomato fields. 2001. Entomological Society of America Annual Meeting, San Diego, CA.
114. Kraemer, M., C. Niedziela, B. Nault, W. Alexander, C. Mullins and J. McConnell. 2001. Sweet corn IPM in southeastern Virginia. Entomological Society of America Annual Meeting, San Diego, CA.
115. *McDonald, S., B. Nault, and S. Tolin. 2000. Delaying the time of infection of aphid transmitted Tobacco etch virus increases fruit yield in *Capsicum chinense*. Entomological Society of America Annual Meeting, Montreal, Quebec.
116. Harding, C., S. Fleischer, B. Miller, M. Spellman, K. Holmstrom, A. Seamen, B. Nault, S. Walker, M. Hughes, M. Saunders, J. Ingerson-Mahar, J. Whalen, D. Moyer, G. Dively, and D. Bean. 2000. Regional monitoring system for sweet corn pests using web interfaced geographic information systems. Entomological Society of America Annual Meeting, Montreal, Quebec.
117. *McDonald, S., S. Tolin, B. Nault, J. Reid, T. Mack and L. Nault. 2000. Field spread of TEV in Jamaican hot pepper variety. Amer. Plant Pathological Society Annual Meeting, New Orleans, LA.
118. Nault, B. A. 2000. Influence of NewLeaf potatoes on overwinter survival of Colorado potato beetles, *Leptinotarsa decemlineata* (Say), (Coleoptera: Chrysomelidae). Entomological Society of America - Eastern Branch Meeting, Springfield, MA.
119. Nault, B. A. 1999. Estimated losses due to insect pests of tomato in Virginia. Entomological Society of America Annual Meeting, Atlanta, GA.
120. *McDonald, S., B. A. Nault, S. Halbert, S. Tolin, and L. Nault. 1999. Seasonal abundance and diversity of aphids in Jamaican hot pepper cropping systems. Entomological Society of America Annual Meeting, Atlanta, GA.
121. Nault, B. A. and J. Speese III. 1999. Managing insect pests of fruiting vegetables. Mid-Atlantic Vegetable Workers' Conference, Newark, DE.
122. Speese, J., III and B. A. Nault. 1999. Managing soil insect pests of potato and sweetpotato. Mid-Atlantic Vegetable Workers' Conference, Newark, DE.
123. Nault, B. A. and J. Speese III. 1999. Evaluation of timing and severity of fruit injury by corn earworm in fresh-market staked tomatoes in eastern Virginia. Entomological Society of America – Eastern Branch Meeting, Virginia Beach, VA.
124. Nault, B.A. and J. Speese III. 1998. Effects of NewLeaf® potatoes on adult Colorado potato beetle behavior and survival. Entomological Society of America Annual Meeting, Las Vegas, NV.
125. Speese, J., III and B. A. Nault. 1998. Interactions between summer-generation Colorado potato beetle adults and transgenic *B.t.t.* potatoes. Entomological Society of America Annual Meeting, Las Vegas, NV.

126. Nault, B. A. 1998. Minimizing insecticide use in tomatoes grown using plasticulture. Virginia Agricultural Council. Charlottesville, VA.
127. Nault, B. A., J. Speese III, G. Dively, J. Linduska and G. G. Kennedy. 1998. Effect of European corn borer damage on potato yield. Entomological Society of America - Eastern Branch Meeting, Cherry Hill, NJ.
128. Nault, B. A. and G. G. Kennedy. 1997. Influence of foliar-applied *B.t.t.* and early harvest of potatoes on the size of Colorado potato beetle populations. Entomological Society of America Annual Meeting, Nashville, TN.
129. Nault, B. A. and G. G. Kennedy. 1997. Evaluation of *Bacillus thuringiensis* subsp. *tenebrionis* for managing Colorado potato beetle on Irish potato in eastern North Carolina. Entomological Society of America - Southeastern Branch Meeting, Asheville, NC.
130. Nault, B. A. and G. G. Kennedy. 1996. Could natural populations of *Coleomegilla maculata* be manipulated to have a practical impact on Colorado potato beetle management in North Carolina potato fields? Entomological Society of America Annual Meeting, Louisville, KY.
131. Nault, B. A. and G. G. Kennedy. 1994. Are bloom-stage potatoes really tolerant of defoliation by Colorado potato beetle? Entomological Society of America Annual Meeting, Dallas, TX.
132. Eckel, C. S., G. G. Kennedy, B. A. Nault, D. N. Ferro, J. A. Lasota, J. A. Norton, and R. A. Dybas. 1994. Timing abamectin applications for control of Colorado potato beetle on potato. Entomological Society of America Annual Meeting, Dallas, TX.
133. Nault, B. A. and G. G. Kennedy. 1993. Effects of potato plant quality and availability on Colorado potato beetle diapause and survival in North Carolina. Entomological Society of America Annual Meeting, Indianapolis, IN.
134. Nault, B. A., P. Follett, F. Gould, and G. G. Kennedy. 1992. Expected compensation for Colorado potato beetle defoliation in mixed plantings of susceptible and resistant potato. Entomological Society of America Annual Meeting, Baltimore, MD.
135. Nault, B. A. and G. G. Kennedy. 1991. Influence of concomitant Colorado potato beetle and European corn borer infestations on potato yields in eastern North Carolina. # 0177. Entomological Society of America Annual Meeting, Reno, NV.
136. Nault, B. A., J. N. All, and H. R. Boerma. 1990. Influence of soybean ontogeny on resistance to corn earworm. Entomological Society of America Annual Meeting, New Orleans, LA.
137. Nault, B. A. 1990. Influence of soybean ontogeny on resistance to corn earworm. E. Broadus Browne Research Award for Outstanding M.S. Graduate Student Research, Georgia Agricultural Experiment Stations, Athens, GA.
138. Nault, B. A., J. N. All, and H. R. Boerma. 1990. Effects of soybean maturity on feeding behavior of corn earworm. Georgia Entomological Society Annual Meeting, Helen, GA.
139. Nault, B. A., J. N. All, and H. R. Boerma. 1989. Resistant mechanisms in soybeans and their effects on corn earworm, soybean looper, and velvetbean caterpillar in the greenhouse. Entomological Society of America Annual Meeting, San Antonio, TX.

140. Nault, B. A., J. N. All, and H. R. Boerma. 1989. Behavior of corn earworm, soybean looper, and velvetbean caterpillar on susceptible and resistant cultivars of soybeans in the greenhouse. Georgia Entomological Society Annual Meeting, Athens, GA.

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.
10. Nault, B. A. 2003. Developing a biologically based management strategy for the Colorado potato beetle in potato. Department of Biological Sciences, University of Maine, Orono, ME.
11. Nault, B. A. 2003. Potential for enhancing natural biological control of Colorado potato beetle in potato. Jugatae Seminar Series. Department of Entomology, Cornell University, Ithaca, NY.
12. Nault, B. A. 2000. Increasing the impact of naturally occurring biological control of the Colorado potato beetle in potato. Department of Entomology, Cornell University, Geneva, NY.

13. Nault, B. A. 2000. Developing a tomato IPM program for Virginia. Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, VA.
14. Nault, B. A. 1998. Describing crop yield/damage relationships for economic threshold development. Department of Entomology and Applied Ecology, University of Delaware, Newark, DE.
15. Nault, B. A. 1998. Limitations of using regression and mean separation analyses for describing crop yield/defoliation relationships. Department of Entomology, Virginia Polytechnic Institute & State University, Blacksburg, VA.
16. Nault, B. A. 1996. Considerations for managing Colorado potato beetle with *B.t.t.* Dept. of Entomology, Virginia Polytechnic Institute & State University, Blacksburg, VA and Eastern Shore Agricultural Research and Experiment Center, Painter, VA.
17. Nault, B. A. 1996. Developing biologically-based IPM approaches for insect pests of potato. Dept. of Entomology, Oklahoma State University, Stillwater, OK.
18. Nault, B. A. 1995. Evaluating novel tools for managing insect pests of potato. Dept. of Entomology, North Carolina State University, Raleigh, NC.
19. Nault, B. A. 1995. Developing an IPM approach for insect pests of potato. Dept. of Entomology, University of Georgia, Athens and Coastal Plain Experiment Station, Tifton, GA.
20. Nault, B. A. 1994. Ecology and management of the Colorado potato beetle and the European corn borer on potatoes. Dept. of Entomology, Cornell University - NYSAES, Geneva, NY.
21. Nault, B. A. 1994. Aspects of managing the Colorado potato beetle, *Leptinotarsa decemlineata* (Say), and the European corn borer, *Ostrinia nubilalis* (Hübner), on potatoes. Dept. of Entomology, North Carolina State University, Raleigh, NC.
22. Nault, B. A. 1990. Resistance mechanisms in various developmental stages of soybean and their effects on corn earworm, velvetbean caterpillar and soybean looper. Dept. of Entomology, North Carolina State University, Raleigh, NC.

Invited Symposia

1. *Leach, A., C. Hoepting, and B. Nault. 2019. Increasing the adoption of insecticide resistance management practices with state-wide extension program. *In: Challenges of Integrated Pest Management (IPM) in High Value Commodities.* Entomological Society of America's Eastern Branch meeting. Blacksburg, VA. March 11, 2019.
2. **Iglesias, L., and B. Nault. 2019. Integrated approaches for managing onion thrips, *Thrips tabaci*, in organic onions. *In: Breaking Ground: Research Highlights from ECPs and non-Academic Track Eastern Branch Members.* Entomological Society of America's Eastern Branch meeting. Blacksburg, VA. March 11, 2019.
3. Nault, B. A., S. J. Fleischer, T. Elkner, E. Grundberg, T. Rusinek, R. Harding, and B. Lingbeek. 2019. Initial steps in managing the new invasive *Allium* leafminer in *Allium* crops. *In: Applied Agriculture and Ag-Industry Symposium.* Entomological Society of America's Eastern Branch meeting. Blacksburg, VA. March 11, 2019.

4. Nault, B. A., A. Leach, C. Hoepting, E. Moretti, and J. Scott. 2018. Adoption and Success of an IRM Program for onion thrips in onion: So good so far! *In* PIE Section Symposium: Impact of Borders on Managing Insect Resistance Management. ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, CA. November 12, 2018.
5. Nault, B. A., S. Fleischer, E. Grundberg, T. Rusinek, D. Roberts and T. Elkner. 2018. Biology and management of *Phytomyza gymnostoma*: a new invasive pest of Allium crops in the eastern US. *In* Insect Detection Evaluation and Prediction: Methods for Dealing with Old and New Invaders. Entomological Society of America's Eastern Branch meeting. Annapolis, MD. March 19, 2018.
6. Nault, B. A., S. Reitz and T. Waters. 2017. Current and future management of onion-thrips transmitted *Iris yellow spot virus* in onion. *In* PIE Section Symposium: Inspiring a new cadre of vegetable specialists by sharing expertise related to piercing-sucking insects of economic importance in vegetable production. Entomological Society of America Annual Meeting, November 8, 2017, Denver, CO.
7. **Schmidt-Jeffris, R., K. Wickings, E. Moretti, M. Wolfen and B. Nault. 2017. Bottom's up for Bt: Below-ground effects complicate the corn borer story. *In* PIE Section Symposium: Celebrating a centennial of corn borers: What have we learned since the introduction? Entomological Society of America Annual Meeting, November 5, 2017, Denver, CO.
8. **Schmidt-Jeffris, R.A., A.S. Huseh and B.A. Nault. 2017. Effects of Bt in the landscape on *Ostrinia nubilalis* in New York processing snap bean. *In* Regional suppression of lepidopteran pests by Bt corn. 26th International Working Group on *Ostrinia* and other Maize Pests Conference. April 10-12, 2017, Beijing, China.
9. **Schmidt-Jeffris, R.A. and B.A. Nault. 2017. Identity matters: localized effects of agriculture on natural enemies. *In* Recent Developments in IPM by Students and Early Career Professionals in the Eastern US. Entomological Society of America 88th Annual Meeting – Eastern Branch, March 18-21, 2017, Newport, RI.
10. **Schmidt-Jeffris, R.A. and B.A. Nault. 2017. Diamides as potential components of snap bean IPM. *In* Vegetable Symposium. Entomological Society of America 91st Annual Meeting – Southeastern Branch, March 12-15, 2017, Memphis, TN.
11. 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.
12. 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.
13. 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.

14. **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.
15. 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.
16. 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.
17. **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.
18. 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.
19. 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.
20. 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.
21. **Hsu, C., C. Hoepfing, 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.
22. Nault, B. A., C. L. Hsu, E. Smith, A. M. Shelton, M. Fuchs and C. Hoepfing. 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.
23. 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.
24. 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.

25. 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.
26. 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.
27. Nault, B. A. 2004. Ecology and management of onion maggot. *In* Section F Symposium: Maggot mania: Insights into biology and management of root maggot pests. Entomological Society of America Annual Meeting, Salt Lake City, UT.
28. Nault, B. A., D. Shah and H. Dillard. 2003. Movement of aphids and incidence of viruses in snap bean fields. *In a symposium entitled*, “Those miserable little suckers: A look at some aphids, scales, and leafhoppers causing problems in the Northeast”. Entomological Society of America’s Eastern Branch Meeting and American Phytopathological Society’s Potomac Division Meeting, Harrisburg, PA.

Other Invited

1. *Leach, A., S. Reiners, M. Fuchs, C. Hoepting and B. A. Nault. 2018. IPM and the human element: developing programs to control onion thrips in onion. Purdue University entomology department seminar series, West Lafayette, IN. December 6, 2018.
2. *Leach, A., S. Reiners, F. Hay, M. Fuchs, R. Harding, and B. A. Nault. 2018. Evaluating interactions between onion thrips and associated plant pathogens for improved management in onion. Sixty-seventh Annual Muck Vegetable Growers Conference. Bradford, Ontario Canada. March 28-29, 2018.
3. Nault, B.A. 2017. Managing onion insect pests and associated diseases. Great Lakes Fruit, Vegetable and Farm Market EXPO. Grand Rapids, MI. December 6, 2017.
4. *Leach, A., C. Hoepting and B. A. Nault. 2017. Fostering adoption of the Cornell Onion Thrips Management Program. New York Farm Viability Institute Annual Meeting, Taking Stock for New York Agriculture. Albany, NY. November 16, 2017.
5. *Leach, A., S. Reiners, M. Fuchs, C. Hoepting and B. A. Nault. 2017. Advancing onion thrips management in onion and challenges in implementation. Larry Larson Award Presentation. Dow Agrosiences Headquarters. Indianapolis, IN. February 24, 2017.
6. Nault, B.A. 2017. Strategies for managing onion insect pests in the Great Lakes Region. Wisconsin Onion Growers Meeting. Stevens Point, WI. February 8, 2017. Speaker, 40 minutes. Attendees: 25.
7. Nault, B. A. 2016. Stop ‘mucking’ around and control those pests. National Onion Association Summer Convention. Niagara Falls, NY. July 14, 2016. Speaker, 30 minutes. Attendees: 110.
8. 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.

9. Nault, B. A. 2014. Onion thrips management. Great Lakes Fruit, Vegetable and Farm Market EXPO. Grand Rapids, MI. December 10, 2014. Speaker, 60 minute talk.
10. *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.
11. Nault, B. A., and C. Hoepting. 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.
12. **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.
13. **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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. Nault, B. A., C. L. Hsu and C. A. Hoepting. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. **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.
27. 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.
28. 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.
29. Nault, B. A. 2008. Onion maggot management in New York. Wisconsin Muck Farmers Association Annual Meeting. Portage, WI. March 4, 2008. Speaker, 30 minutes.
30. 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.
31. 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.
32. Nault, B. A. 2007. Understanding viruses in snap beans. Mid-Atlantic Fruit and Vegetable Convention, Hershey, PA. January 30, 2007. Speaker, 45 minutes.
33. 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.
34. 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.
35. 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.
36. 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.

37. 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.
38. 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.
39. Nault, B. A. 2005. Onion thrips control on onion: with an emphasis in New York. Northeast Regional Meeting IR-4, Geneva, NY. September 2005. Speaker. Duration: 30 minutes.
40. Nault, B. A. 2005. Potential new strategies for onion maggot management in onion. Muck Vegetable Growers Meeting, Bradford, Ontario, Canada. April 7, 2005. Speaker, 30 minutes.
41. Nault, B. A., A. Shelton, J. Zhao, J. Plate and A. Landers. 2005. Why are onion thrips so difficult to control in onions? Wisconsin Muck Farmers Association Annual Meeting, Portage, WI. March 1, 2005. Speaker, 30 minutes.
42. Nault, B. A., R. Straub and A. Taylor. 2005. Evaluating new seed treatments for onion maggot control. 2005 Wisconsin Muck Farmers Association Annual Meeting, Portage, WI. March 1, 2005. Speaker, 15 minutes.
43. Nault, B. A. 2005. Viruses spread by aphids in snap beans and potential management. Mid-Atlantic Fruit and Vegetable EXPO, Hershey, PA. February 1, 2005. Speaker, 30 minutes.
44. Nault, B. A. 2004. Aphid control and viruses in snap bean. Great Lakes Fruit, Vegetable & Farm Market EXPO, Grand Rapids, MI. December 8, 2004. Speaker, 30 minutes.
45. Nault, B. A., A. Shelton, A. Landers, J. Zhao and J. Plate. 2004. Onion thrips – insecticide resistance and management. Great Lakes Fruit, Vegetable & Farm Market EXPO, Grand Rapids, MI. December 8, 2004. Speaker, 30 minutes.
46. Nault, B. A. 2003. Aphid dispersal and virus incidence in snap bean fields. Mid-Atlantic Vegetable Growers Convention, Hershey, PA.
47. Nault, B. A. 2002. Managing European corn borer in potatoes. Mid-Atlantic Vegetable Growers Convention, Harrisburg, PA.
48. Nault, B. A. 1999. Colorado potato beetle overwintering and dispersal. NatureMark's Colorado potato beetle resistance management meeting, Montreal, Canada.
49. Nault, B. A. 1999. How is the Scientific Community Addressing the Issues – Insect Pest Management? Plasticulture Discussion Group, Eastern Shore AREC, Painter, VA.

Undergraduate Presentations (Posters)

1. Ebels, L., Leach, A., and B. A. Nault. 2018. Associations between onion growth characteristics and *Thrips tabaci* populations. Cornell AgriTech Summer Scholars poster session. Geneva, NY July 28, 2018.

2. Gentner, D., R. Harding, M. Fuchs and B. A. Nault. 2017. Monitoring aphid activity and Cucumber mosaic virus incidence in snap bean fields in New York State. NYSAES Summer Scholars poster session. Geneva, NY. July 28, 2017.
3. Wallace, R., D. Olmstead and B. A. Nault. 2016. Assessing susceptibility levels of spinetoram in onion thrips (*Thrips tabaci*) populations in New York onion fields. NYSAES Summer Scholars poster session. Geneva, NY. July 29, 2016.
4. Moretti, E., R. Schmidt-Jeffris and B. A. Nault. 2016. Effects of corn grown in organically and conventionally managed soil on European corn borer searching behavior. NYSAES Summer Scholars poster session. Geneva, NY. July 29, 2016.
5. 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.
6. 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.
7. 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. NYSAES Summer Research Scholars Display Session. Geneva, NY. July 31, 2013.

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. 2019. Onion thrips and *Iris yellow spot virus* management in onion – what’s next? Elba onion growers winter meeting. Cornell Cooperative Extension Vegetable Program. Elba, NY. March 19, 2019. Speaker, 60 minutes. Attendees: 12.
2. Nault, B. A. 2019. Onion maggot management for 2019 and beyond. Oswego County onion growers winter meeting. Cornell Cooperative Extension Eastern Vegetable Program. Oswego, NY. March 18, 2019. Speaker, 60 minutes. Attendees: 11.
3. Nault, B. A., and E. Grundberg. 2019. Insecticide evaluations for Allium leafminer management. Orange County Onion School. Cornell Cooperative Extension Eastern New York Commercial Horticulture. Pine Island, NY. March 5, 2019. Speaker, 25 minutes. Attendees: 65.
4. Nault, B. A. 2019. Onion thrips and onion maggot management for 2019. Orange County Onion School. Cornell Cooperative Extension Eastern New York Commercial Horticulture. Pine Island, NY. March 5, 2019. Speaker, 60 minutes. Attendees: 65.
5. Nault, B. A., and A. Seaman 2019. Evaluating the performance of biopesticides for pest management in selected vegetable crops. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 16, 2019. Speaker, 20 minutes. Attendees: 60.
6. Nault, B.A. 2018. Managing caterpillar pests using conventional and OMRI-listed insecticides in sweet corn. Processing sweet corn, green pea, lima bean, table beet & carrot Advisory Meeting. Cornell Cooperative Extension. Batavia, NY. December 12, 2018. Speaker, 20 minutes. Attendees: 60.
7. Nault, B.A. 2018. Seedcorn maggot management in green peas. Processing sweet corn, green pea, lima bean, table beet & carrot Advisory Meeting. Cornell Cooperative Extension. Batavia, NY. December 12, 2018. Speaker, 20 minutes. Attendees: 60.
8. Nault, B.A. 2018. Update on insect pest management and Cucumber mosaic virus in snap bean. Processing snap bean advisory meeting. Cornell Cooperative Extension. Canandaigua, NY. December 4, 2018. Speaker, 20 minutes. Attendees: 50.
9. *Leach, A., R. Harding, M. Fuchs and B.A. Nault. 2018. Impacts of nitrogen fertilizer in muck onion production. Poster presentation. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 4-6, 2018.
10. *Leach, A., E. Moretti and B.A. Nault. 2018. First look at 2018 results for onion thrips and onion maggot management. Oswego onion grower twilight meeting, Oswego, NY. August 22, 2018. Speaker, 30 minutes. Attendees: 60.
11. Nault, B.A., and A. Leach. 2018. Onion thrips and onion maggot management strategies. Orange County Onion School. Cornell Cooperative Extension Eastern New York Commercial Horticulture. Middletown, NY. February 28, 2018. Speaker, 45 minutes. Attendees: 60.

12. Nault, B.A. 2018. Colorado potato beetle management strategies for organically and conventionally grown potato. New York Potato Growers Association. Seneca Falls, NY. February 2018. Speaker, 30 minutes. Attendees: 120.
13. Nault, B.A., D. Olmstead and A. Seaman. 2018. Managing corn earworm using GMO varieties, conventional and OMRI-approved insecticides in sweet corn. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 17, 2018. Speaker, 30 minutes. Attendees: 60.
14. Nault, B.A., and R. L. Groves. 2018. CMV in snaps. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 16, 2018. Speaker, 30 minutes. Attendees: 80.
15. Nault, B.A., and C. Hoepting. 2017. In-depth look: Managing diamondback moth in the face of insecticide resistance. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 17, 2017. Speaker, 45 minutes. Attendees: 80.
16. Olmstead, D., B. Nault and A. Shelton. 2017. Well-timed diamide applications effectively control earworm in sweet corn. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 18, 2017. Co-author, 25 minutes. Attendees: 60.
17. **Schmidt-Jeffris, R., and B. Nault. 2017. Effects of cropping history on European corn borer abundance in processing sweet corn. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 18, 2017. Co-author, 20 minutes. Attendees: 60.
18. Nault, B.A. 2017. Managing Colorado potato beetle and potato leafhopper. Empire State Producers EXPO. Cornell Cooperative Extension. Syracuse, NY. January 19, 2017. Speaker, 20 minutes. Attendees: 75.
19. Nault, B.A. 2017. Integrated pest management for onions. Orange County Onion School. Cornell Cooperative Extension Eastern New York Commercial Horticulture. Middletown, NY. February 28, 2017. Speaker, 45 minutes. Attendees: 60.
20. Nault, B.A. 2017. Onion insect management 2016 research update. Winter Elba Onion School and Advisory Meeting. Cornell Cooperative Vegetable Program. Albion, NY. March 8, 2017. Speaker, 60 minutes. Attendees: 35.
21. Nault, B.A. 2017. Onion insect management 2016 research update. Oswego Winter Onion School and Advisory Meeting. Cornell Cooperative Vegetable Program. Oswego, NY. March 16, 2017. Speaker, 60 minutes. Attendees: 55.
22. Nault, B.A. 2017. Diamondback moth management in cole crops: Avoiding past mistakes and a look into the future. 2017 Geneva Pesticide Applicator Update. College of Agriculture and Life Sciences Occupational and Environmental Health. Geneva, NY. March 31, 2017. Speaker, 30 minutes. Attendees: 40.
23. Nault, B.A. 2017. Allium leafminer management meeting. Orange County Twilight Meeting. Cornell Cooperative Extension Eastern New York Commercial Horticulture. Goshen, NY. October 19, 2017. Speaker, 45 minutes. Attendees: 15.

24. Nault, B.A. 2017. Evaluating insecticides to manage diamondback moth in cabbage. New York State Cabbage Research and Development Annual Board Meeting. Geneva, NY. December 12, 2017. Speaker, 20 minutes. Attendees: 15.
25. Nault, B.A. 2017. Seed corn maggot control in beans and an update on CMV in bean fields. Processing crops advisory meeting. Cornell Cooperative Extension. Batavia, NY. December 13, 2017. Speaker, 20 minutes. Attendees: 60.
26. Olmstead, D., and B.A. Nault. 2017. Advancing corn earworm management in sweet corn. Processing crops advisory meeting. Cornell Cooperative Extension. Batavia, NY. December 13, 2017. Speaker, 20 minutes. Attendees: 60.
27. Leach, A., R. Harding, M. Fuchs and B. A. Nault. 2016. Evaluating insecticide programs to mitigate iris yellow spot disease in onion. Great Lakes Fruit and Vegetable Expo, Grand Rapids, MI. December 6-8, 2016. Poster presentation.
28. Nault, B.A. 2016. 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 16, 2016. Speaker, 20 minutes. Attendees: 16.
29. Olmstead, D., and B.A. Nault. 2016. Evaluating novel approaches for European corn borer and corn earworm control in sweet corn. Processing carrot, sweet corn, pea, and lima bean advisory meeting. Cornell Cooperative Extension. Batavia, NY. December 8, 2016. Co-presenter, 20 minutes. Attendees: 50.
30. **Schmidt-Jeffris, R., and B.A. Nault. 2016. Evaluating novel approaches for European corn borer control in snap bean. Processing snap bean advisory meeting. Cornell Cooperative Extension. Geneva, NY. December 5, 2016. Co-presenter, 20 minutes. Attendees: 40.
31. *Leach, A., R. Harding, M. Fuchs and B.A. Nault. 2016. Evaluating insecticide programs to mitigate Iris Yellow Spot Disease in onion. Great Lakes Fruit and Vegetable EXPO, Grand Rapids, MI. December 6-8, 2015. Poster presentation.
32. Olmstead, D., and B.A. Nault. 2016. Cucurbit insect pests: management and challenges. Northeast Regional Certified Crop Advisor Association Meeting. Rochester, NY. December 1, 2016. Co-presenter, 35 minutes. Attendees: 24.
33. Olmstead, D., and B.A. Nault. 2016. Sweet corn pest update: corn earworm and European corn borer. Cornell Cooperative Extension Ag- In Service. Ithaca, NY. November 2, 2016. Co-presenter, 20 minutes. Attendees: 20.
34. Nault, B. A. 2016. Potato insect management. Fresh Market Potato Varieties, Disease & Insect Management Meeting. Cornell Cooperative Extension, Vegetable Program. Marion, NY. August 25, 2016. Speaker, 20 minutes. Attendees: 40.
35. Nault, B. A. 2016. Onion insect pest management update. 2016 Annual Elba Muck onion twilight meeting. Cornell Cooperative Extension, Vegetable Program. Elba, NY. August 4, 2016. Speaker, 30 minutes. Attendees: 30.

36. Nault, B.A. and A. B. Leach. 2016. Onion thrips pest management research in New York State. National Onion Association Summer Convention Field Tour. July 15, 2016. Speaker, 15 minutes. Attendance: 200.
37. Nault, B. A. 2016. Controlling onion insects. Oswego County Onion Growers Twilight Meeting. Cornell Cooperative Extension of Oswego County. Oswego, NY. June 16, 2016. Speaker, 45 minutes. Attendance: 60.
38. 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.
39. Nault, B. A., A. Leach, and C. Hoeping. 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.
40. *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.
41. Hoeping, 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.
42. **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: 50.
43. **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: 50.
44. 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.
45. 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.
46. **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.
47. *Leach, A. C. Hoeping, 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.

48. Nault, B. A., A. Leach, and C. Hoepting. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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: 60.
55. 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.
56. 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.
57. 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.
58. **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.

59. 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.
60. 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.
61. 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.
62. 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.
63. **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.
64. 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.
65. 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.
66. **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.
67. 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.
68. 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.
69. **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.
70. **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.

71. 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.
72. 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.
73. Nault, B. A. 2013. Insect management for onions. Orange County Onion School. Middletown, NY. March 1, 2013. Speaker. Duration: 30 minutes. Attendance: 30.
74. 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.
75. Nault, B. A. 2013. Colorado potato beetle management options. Empire State Fruit & Vegetable EXPO. Syracuse, NY. January 22, 2013. Speaker, 30 minutes. Attendance: 60.
76. **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.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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.
82. 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.

83. 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.
84. 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.
85. 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.
86. Nault, B. A., A. M. Shelton, C. L. Hsu and C. A. Hoeping. 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.
87. *Hsu, C.L., C. A. Hoeping, 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.
88. *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.
89. *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.
90. 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.
91. 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.
92. Nault, B. A., C. L. Hsu and C. A. Hoeping. 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.
93. Nault, B. A., C. L. Hsu and C. A. Hoeping. 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
94. **Hsu, C. L., B. A. Nault, S. Reinert and C. A. Hoeping. 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.

95. 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.
96. 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.
97. 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.
98. **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.
99. 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.
100. 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.
101. 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.
102. 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.
103. 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.
104. 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.
105. 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.

106. **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.
107. 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.
108. 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.
109. 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.
110. 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.
111. 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.
112. 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.
113. 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.
114. 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.
115. 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.
116. 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.

117. 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.
118. 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.
119. 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.
120. **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.
121. 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.
122. **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.
123. 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.
124. 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.
125. **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.
126. 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.
127. 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.

128. 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.
129. 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.
130. 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.
131. 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.
132. 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.
133. 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.
134. **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.
135. **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.
136. 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.
137. 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.
138. **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.
139. 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.

140. 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.
141. 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.
142. Nault, B. A., A. M. Shelton, M. L. Hessney, K. Straight, A. Taylor, P. Jentsch, H. Grimsland and C. Hoepting. 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.
143. 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.
144. 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.
145. Nault, B. A., C. A. Hoepting 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.
146. 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.
147. 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.
148. 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.
149. 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.
150. 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.
151. 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.

152. 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.
153. 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.
154. 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.
155. 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.
156. Nault, B. A., R. Straub, J. Nyrop, A. Taylor, M. Hessney, K. Straight, H. Grimslund, C. Hoeping, 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.
157. Nault, B. A. 2005. Update on management of dry bean insect pests. New York dry bean industry advisory committee meeting. Cornell Cooperative Extension. Farmington, NY. December 9, 2005. Speaker, 15 minutes. Attendees: 40.
158. Nault, B. A., D. Shah, A. Taylor, S. Reiners. 2005. Snap bean/ aphid/ virus project: 2005 research results. Processing Advisory Round Table Meeting between the New York Crop Research Association/Council and Cornell Cooperative Extension. Geneva, NY. November 29, 2005. Speaker, 15 minutes. Attendees: 40.
159. Nault, B. A. 2005. Onion thrips reproductive strategies in onion fields and relationships with insecticide susceptibility, *Wolbachia* and temperature. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 3, 2004. Speaker, 15 minutes. Attendees: 15.
160. Nault, B. A. and A. M. Shelton. 2005. Onion insect management demonstration and discussion. Muck onion twilight meeting. Cornell Cooperative Extension. Batavia, NY. August 4, 2005. Speaker, 60 minutes. Attendees: 40.
161. Nault, B. A. 2005. Insect control using seed treatments in snap beans, dry beans, and sweet corn. Vegetable Crops Field Day at the New York Crop Research Facility. Cornell Cooperative Extension. Batavia, NY. August 4, 2005. Speaker, 30 minutes. Attendees: 40.
162. Nault, B. A. and A. M. Shelton. 2005. Onion thrips control. New York State Onion Industry Council Summer Tour and Meeting. Cornell Cooperative Extension. Pine Island, NY. July 2005. Speaker, 15 minutes. Attendees: 40.

163. Nault, B. A. 2005. Onion maggot control. New York State Onion Industry Council Summer Tour and Meeting. Cornell Cooperative Extension. Pine Island, NY. July 2005. Speaker, 15 minutes. Attendees: 40.
164. Nault, B. A. 2005. Onion thrips control. Oswego County Onion Growers Meeting. Cornell Cooperative Extension of Oswego County. Fulton, NY. Speaker, 30 minutes. Attendees: 30.
165. Nault, B. A. 2005. Controlling seed maggots, leafhoppers and European corn borer in dry bean. NYS Dry Bean Meeting. Cornell Cooperative Extension. Farmington, NY. March 15, 2005. Speaker, 30 minutes. Attendees: 100.
166. Nault, B.A., A.M. Shelton, R.W. Straub and A.G. Taylor. 2005. Insect management update and future research. Elba Muck Winter Meeting. Cornell Cooperative Extension. Batavia, NY. March 11, 2005. Speaker, 20 minutes. Attendees: 15.
167. Nault, B. A. 2005. Strategies that may enhance onion maggot management. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 16, 2005. Speaker, 30 minutes. Attendees: 70.
168. Nault, B. A., and A. G. Taylor. 2005. Snap bean/ aphid/ virus project: 2004 research results. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Syracuse, NY. February 15, 2005. Speaker, 30 minutes. Attendees: 100.
169. Nault, B. A., R. Straub, J. Nyrop, A. Taylor, M. Hessney, K. Straight, H. Grimsland, C. Hoepting, C. MacNeil and J. van der Heide. 2005. Potential strategies for onion maggot management. NYS Onion Industry Council Winter Meeting. February 2, 2005. Speaker, 15 minutes. Attendees: 30.
170. Nault, B. A. 2004. Insect and virus management in snap bean. Processing Advisory Round Table Meeting between the New York Crop Research Association/Council and Cornell Cooperative Extension. Geneva, NY. November 30, 2004. Speaker, 15 minutes. Attendees: 40.
171. Nault, B. A. 2004. Seedcorn maggot and European corn borer management in snap bean. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 18, 2004. Speaker, 25 minutes. Attendees: 15.
172. Nault, B. A. 2004. Potential new strategies for onion maggot in onion. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 18, 2004. Speaker, 25 minutes. Attendees: 15.
173. Nault, B. A. 2004. Managing seed maggots and potato leafhopper in snap bean. Eleventh Annual Processing Sweet Corn/Snap Bean Field Day. Geneva, NY. August 19, 2004. Speaker, 15 minutes. Attendees: 50.
174. Nault, B. A. 2004. European corn borer control in snap beans. New York Crop Research Facility and Lake Plains Vegetable Program Field Day. Cornell Cooperative Extension. Batavia, NY. August 13, 2004. Speaker, 20 minutes. Attendees: 25.

175. Nault, B. A. 2004. Ecology and management of onion maggot. NYS Onion Industry Council Tour and Meeting. Elba, NY. July 8, 2004. Speaker, 15 minutes. Attendees: 40.
176. Nault, B. A. 2004. Overview of insect management in carrots. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 10, 2004. Speaker, 20 minutes. Attendees: 100.
177. Nault, B. A. and A.G. Taylor. 2004. New seed treatments that may revolutionize insect control in snap beans. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 10, 2004. Speaker, 30 minutes. Attendees: 150.
178. Taylor, A. G. and B. A. Nault. 2004. Virus incidence in snap bean seeds. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 10, 2004. Co-presenter, 15 minutes. Attendees: 150.
179. Nault, B. A. 2004. Is there a solution for managing aphid-transmitted viruses in snap beans? Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 10, 2004. Speaker, 20 minutes. Attendees: 150.
180. Nault, B. A. and B. P. Werling. 2004. Onion maggot behavior and opportunities for alternative management. Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 11, 2004. Speaker, 30 minutes. Attendees: 80.
181. Shelton, A. M., B. A. Nault, J. Plate, and J. Zhao. 2004. Seasonal effects on thrips control and resistance management: How you can get on top! Empire State Fruit & Vegetable Expo. Cornell Cooperative Extension and New York State Vegetable Growers Association. Rochester, NY. February 11, 2004. Co-presenter, 30 minutes. Attendees: 80.
182. Nault, B. A. Ecology and management of onion maggot. 2004. NYS Onion Industry Council Winter Meeting. Ithaca, NY. January 22, 2004. Speaker, 15 minutes. Attendees: 30.
183. Nault, B. A. and A. G. Taylor. 2003. Seed treatments to control insects in vegetables. Sixty-fifth Annual Cornell Seed Conference, Geneva, NY. Speaker, 30 minutes. Attendees: 100.
184. Nault, B. A. 2003. Aphid dispersal and virus incidence in snap bean fields: Possibilities for virus management. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 12, 2003. Speaker, 20 minutes. Attendees: 12.
185. Nault, B. A. 2003. Patterns of onion maggot dispersal and oviposition in onion fields: Implications for management. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 12, 2003. Speaker, 20 minutes. Attendees: 12.

186. Nault, B. A., D. Shah and A. McFaul. 2003. Quantifying the temporal dynamics of aphid dispersal and virus spread in snap bean fields. Processing Advisory Round Table Meeting between the New York Crop Research Association/Council and Cornell Cooperative Extension. Geneva, NY. December 2003. Speaker, 20 minutes. Attendees: 40.
187. Nault, B. A. 2003. Onion thrips and onion maggots – how to control them? Elba Muck Twilight Meeting. Cornell Cooperative Extension. Elba, NY. August 2003. Speaker, 20 minutes. Attendees: 26.
188. Nault, B. A. 2003. Onion maggot ecology and management. NYS Onion Industry Tour and Meeting. Speaker, 20 minutes. Attendees: 30.
189. Nault, B. A. 2003. Insecticide resistance for onion thrips. Oswego County Onion Growers Meeting. Cornell Cooperative Extension of Oswego Co. Oswego, NY. Speaker, 30 minutes. Attendees: 70.
190. Nault, B. A. 2003. Update on onion insect management. Elba Muck Advisory and Discussion Meeting. Cornell Cooperative Extension. Batavia, NY. Speaker, 20 minutes. Attendees: 20.
191. Nault, B. A. and A. M. Shelton. 2003. Onion insect management update. New York State Vegetable Conference and Berry Growers Meeting. Cornell Cooperative Extension and New York State Vegetable Growers Association. Liverpool, NY. Speaker, 20 minutes. Attendees: 150.
192. Taylor, A. G. and B. A. Nault. 2003. Evaluation of seed treatments and foliar sprays to control insects and viruses in snap beans. New York State Vegetable Conference and Berry Growers Meeting. Cornell Cooperative Extension and New York State Vegetable Growers Association. Liverpool, NY. Co-presenter, 20 minutes. Attendees: 150.
193. Nault, B. A. 2003. Seasonal patterns of aphid movement and virus incidence in snap beans. New York State Vegetable Conference and Berry Growers Meeting. Cornell Cooperative Extension and New York State Vegetable Growers Association. Liverpool, NY. Speaker, 20 minutes. Attendees: 150.
194. Nault, B. A. 2003. Update on onion insect management. NYS Onion Industry Council Winter Meeting. Ithaca, NY. January 23, 2003. Speaker, 15 minutes. Attendees: 25.
195. Nault, B. A. 2002. Vegetable pest management update: snap bean/aphid/virus complex. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 21, 2002. Chair and Speaker, 20 minutes. Attendees: 15.
196. Nault, B. A. 2002. Onion maggot and onion thrips management. Elba Muck Twilight Meeting. Cornell Cooperative Extension. Elba, NY. Speaker, 20 minutes. Attendees: 40.
197. Nault, B. A. 2002. Update on onion insect pest management. Oswego County Onion Growers Meeting. Cornell Cooperative Extension of Oswego Co. Oswego, NY. June 2002. Speaker, 30 minutes. Attendees: 50.

198. Nault, B. A. 2002. Aphids/ virus complex and leafhoppers in dry beans. NYS Dry Bean Meeting. Cornell Cooperative Extension. Farmington, NY. March 2002. Speaker, 20 minutes. Attendees: 150.
199. Nault, B. A. 2002. Update and future research on onion insect management. Elba Muck Advisory and Discussion Meeting. Cornell Cooperative Extension. Batavia, NY. Speaker, 20 minutes. Attendees: 20.
200. Nault, B. A. 2002. Onion insect management. New York State Vegetable Conference and Berry Growers Meeting. Cornell Cooperative Extension and New York State Vegetable Growers Association. Liverpool, NY. Speaker, 20 minutes. Attendees: 150.
201. Nault, B. A. 2002. Aphid transmitted viruses in snap beans. New York State Vegetable Conference and Berry Growers Meeting. Cornell Cooperative Extension and New York State Vegetable Growers Association. Liverpool, NY. Speaker, 20 minutes. Attendees: 150.
202. Nault, B. A. 2002. Onion insect control. NYS Onion Industry Council Winter Meeting. Ithaca, NY. January 15, 2002. Speaker, 15 minutes. Attendees: 25.
203. Nault, B. A. 2001. Insect management in onion and snap bean. Agriculture and Food Systems In-Service. Cornell Cooperative Extension. Ithaca, NY. November 29, 2001. Speaker, 20 minutes. Attendees: 30.
204. Nault, B. A. 2001. Insect control in onions. Bejo Seeds Inc., Field Day and Open House, Bejo Seeds Research Farm. Geneva, NY. August 2001. Speaker, 15 minutes. Attendees: 30.
205. Nault, B. A. and L. Stivers. 2001. Potato leafhopper and European corn borer control in snap beans. Third-annual New York Crop Research Facility Field Day, NYCRF. Cornell Cooperative Extension. Batavia, NY. Speaker, 20 minutes. Attendees: 40.
206. Nault, B. A. 2001. Managing European corn borer in snap beans. Eighth Annual Processing Sweet Corn and Snap Bean Field Day, NYSAES. Geneva, NY. Speaker, 15 minutes. Attendees: 50.
207. Nault, B. A. 2001. Research goals for managing insect pests of onion. Oswego County Onion Growers Meeting. Cornell Cooperative Extension of Oswego Co. Oswego, NY. Speaker, 15 minutes. Attendees: 50.
208. Speese, J., III and B. A. Nault. 2001. Insect pest update. Richmond Area Vegetable Growers Annual Meeting, Richmond, VA.
209. Speese, J., III and B. A. Nault. 2001. Vegetable insect pest management. Northern Neck Vegetable Growers Association Annual Business and Production Meeting, Tappahannock, VA.
210. Speese, J., III and B. A. Nault. 2001. Vegetable insect management and current recommendations. Southeast Virginia winter vegetable short course, Franklin, VA.
211. Nault, B. A. 2001. Managing key insect pests of potato. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.

212. Nault, B. A., and J. Speese III. 2001. Sweetpotato insect pest management. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
213. Speese, J., III and B. A. Nault. 2001. Vegetable insect pest management. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
214. Speese, J., III and B. A. Nault. 2000. Vegetable insect pest management. Northern Neck Vegetable Growers Association Annual Business and Production Meeting, Tappahannock, VA.
215. Nault, B. A. 2000. Managing thrips and stinkbugs in tomato. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
216. Nault, B. A. 2000. Colorado potato beetle management in potato. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
217. Nault, B. A. 2000. Thrips control in cotton. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
218. Speese, J., III and B. A. Nault. 2000. Cucumber beetle control in cantaloupes. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
219. Nault, B. A. 2000. European corn borer management in potato. Tidewater Agronomics' Annual Potato Production Meeting, Elizabeth City, NC.
220. Nault, B. A. 2000. Cotton insect pest management. Eastern Shore Production and Marketing Program, Eastern Shore AREC, Painter, VA.
221. Speese, J., III and B. A. Nault. 2000. Vegetable insect management. Richmond Area Vegetable Growers Annual Meeting, Richmond, VA, 2000.
222. Nault, B. A. 2000. Vegetable insect pest control. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
223. Nault, B. A. 2000. Sweetpotato insect pest management. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
224. Nault, B. A. 2000. Cotton insect pest management. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
225. Nault, B. A. 2000. Control of the Colorado potato beetle. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
226. Nault, B. A. 2000. Vegetable insect pest management. Northern Neck Vegetable Growers Association Annual Business and Production Meeting, Tappahannock, VA.
227. Speese, J., III and B. A. Nault. 1999. New approaches in resistance management for insect control. Fourteenth Annual Southeast Vegetable and Fruit Expo, Greensboro, NC.
228. Nault, B. A. 1999. Pest management principles in specific crops. Eastern Shore of Virginia Private Pesticide Applicator Recertification Program, Eastern Shore AREC, Painter, VA.
229. Nault, B. A. 1999. Managing insect pests of cotton. Maryland Farmers Cotton Tour, Eastern Shore AREC, Painter, VA.

230. Nault, B. A. 1999. Cotton insect management. Cotton Field Workshop – Insect Scouting. Eastern Shore AREC, Painter, VA.
231. Nault, B. A. 1999. Tomato insect pest management. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA
232. Nault, B. A. 1999. Potato insect pest management. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
233. Nault, B. A. 1999. Insect control in cotton. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
234. Nault, B. A. 1999. Cabbage IPM in Virginia. Southwest Virginia Annual Cabbage Meeting, Fancy Gap, VA.
235. Nault, B. A. 1999. European corn borer management in potatoes. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
236. Nault, B. A. 1999. Insect pest management in cotton. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
237. Nault, B. A. 1999. Insect pest management – growing vegetables for the commercial market short course, Franklin, VA.
238. Nault, B. A. 1998. Insect pest management in sweetpotatoes. Hayman sweetpotato tour, Painter, VA.
239. Nault, B. A. 1998. Tomato insect pest management. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
240. Nault, B. A. 1998. Potato insect pest management. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
241. Nault, B. A. 1998. Insect control in cotton. Vegetable and Crop Management Field Day, Eastern Shore AREC, Painter, VA.
242. Nault, B. A. 1998. Insect pest management for vegetables. Northern Neck Vegetable Growers Association Annual Business and Production Meeting, Tappahannock, VA.
243. Nault, B. A. 1998. Insect control in specialty crops. Virginia Crop Production Association Annual Winter Meeting, Midlothian, VA.
244. Nault, B. A. 1998. Insect management in *B.t.* Potatoes. Eastern Shore Ag Conference and Trade Show, Belle Haven, VA.
245. Nault, B. A. and G. G. Kennedy. 1994. Influence of timing insecticide applications to control European corn borer in potato. North Carolina Agricultural Chemicals School Annual Meeting, Raleigh, NC.
246. Nault, B. A., P. Follett, F. Gould, and G. G. Kennedy. 1993. Expected compensation for Colorado potato beetle defoliation in mixed plantings of susceptible and resistant potato. North Carolina Agricultural Chemicals School Annual Meeting, Raleigh, NC.

Outreach Presentations/ Advocacy for Stakeholders

1. Nault, B. A. 2019. Allium leafminer: A new invasive pest of Allium crops in the US. Meeting with Deputy Administrator of APHIS PPQ, Osama El-Lissy. April 11, 2019. Washington D.C.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. English-Loeb, G. and B. A. Nault. 2005. Field course and lecture about detrimental and beneficial insects in vegetable gardens. North Street Elementary Science Camp. Geneva, NY. Co-presenter and presenter, 1 hour. Attendees: 10.

INTERNET PRESENCE/ DISTANCE LEARNING

I have included a series of comprehensive presentations on vegetable insect biology, ecology and management. These presentations can be accessed through my lab web page <http://nault.entomology.cornell.edu/extension/> and serves as a resource for University faculty, Cooperative extension educators, crop consultants, vegetable growers, industry personnel and other vegetable insect pest management practitioners.

Update on insect pest management and Cucumber mosaic virus in snap bean (Dec 2018)

Seedcorn maggot management in green peas (Dec 2018)

Managing caterpillar pests using conventional and OMRI-listed insecticides in sweet corn (Dec 2018)

Biology and management of *Phytophthora blight*: a new invasive pest of *Allium* crops in the eastern US (March 2018)

Relationship between *Stemphylium vesicarium* and onion thrips (*Thrips tabaci*) in the development of *Stemphylium* leaf blight disease (Aug 2018)

Onion thrips and onion maggot management strategies (Feb 2018)

Colorado Potato Beetle Management Strategies for Organically and Conventionally Grown Potato (Feb 2018)

Managing Corn Earworm using GMO Varieties, Conventional and OMRI-approved Insecticides in Sweet Corn (Jan 2017)

Evaluating insecticides for managing diamondback moth in cabbage (Dec 2017)

Colorado potato beetle biology and management (Jan 2016)

Cucumber mosaic virus in snap beans: symptoms, vectors and management (Jan 2016)

Insect pests and their management in selected processing vegetable crops (Jan 2016)

Onion maggot management in fresh-market onion (Jan 2016)

Onion thrips biology and management in onion (April 2016)

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)

RESOURCE FOR MEDIA

- **Nault, B. A.** 2005. Interviewed by Ithaca College's Channel 16 about the effects of hot and dry weather on insect pest problems in vegetable crops. September 2005. Geneva, NY.
- **Nault, B. A.** 1997. Information statement on the use of Temik® on cotton on the Eastern Shore of Virginia. Presentation requested by the County Administrator and the Accomack County Board of Supervisors. Accomac, VA.

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.
- **Nault, B. A.** 2005. Seed treatments make impact on NY agriculture. Presentation made to Catherine M. Young, NYS Senator, 57 Senate District, Chair of the Senate Agriculture Committee. Number of attendees: 8.
- **Nault, B. A.** 2004. Reduced-risk approach for insect control in New York snap bean fields. NYSAES, Geneva, NY. September 13, 2004. Presented overview of a portion of my research and extension program to NY Legislators and Cornell lobbyists. Number of attendees: 15.
- **Nault, B. A.** 1997. Information statement on the use of Temik® on cotton on the Eastern Shore of Virginia. Presentation requested by the County Administrator and the Accomack County Board of Supervisors. Accomac, VA.

OTHER RELEVANT EXTENSION/ OUTREACH ACTIVITIES, ACCOMPLISHMENTS

- 2018** -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 ReTurn (oxamyl) on onion for nematode control in New York. (Valid through 6/1/2023).
- 2018** -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 Deadline MPs (metaldehyde) on green peas for slug and snail control in New York. (Valid through 12/31/2023).
- 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.
- 2003** -Wrote a letter of support that led to the DEC granting a FIFRA Section 24(c), Special Local Needs Label, for the use of Vydate L on onion for onion thrips control in New York. (Valid through 12/31/2010).
- 2003** -Wrote a letter of support that led to the DEC granting a FIFRA Section 24(c), Special Local Needs Label, for the use of Metasystox-R on onions for onion thrips control in New York. (Valid through 12/31/2007).

2002 -Wrote a letter of support that led to the DEC granting a FIFRA Section 24(c), Special Local Needs Label, for the use of Lorsban 4E and Lorsban 15G on snap bean for seed maggot control in New York. (Renewed in 2004).

2002 -Wrote a letter of support that led to the DEC granting a FIFRA Section 24(c), Special Local Needs Label, for the use of Lorsban 4E and Lorsban 15G on snap bean for seed maggot control in New York. (Renewed in 2004).

COURSE INSTRUCTED/COORDINATED

- **PLPA 4190/ ENTOM 4190, Agricultural Application of Plant Health Concepts: Diseases and Pests of New York Crops.** 2 credits Fall Semester. 2010-2016. I coordinated this course during the summer with Dr. David Gadoury. The focus of the course was to address real world problems in plant pathology and entomology through the application of research and extension. Students toured 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 were emphasized. The role of Extension in communicating advancements in disease and pest management also was discussed and growers interacted with the group during the tours. The tours also visited some processing facilities to view the end-use of some crops. The course (2 credits) consisted of day-long field trips, usually preceded by an introductory presentation. The schedule included 8 field trips.

OTHER RELEVANT TEACHING ACTIVITIES

- **Guest Lecturer in Horticulture 3500 – Vegetable Production.** Fall Semesters 2006, 2008, 2010, 2012, 2014, 2016 and 2018 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. Dr. Stephen Reiners is the lecturer for this course.
- **Guest Lecturer in Entomology 7670 – Professional Development.** Fall Semester 2014 and 2016, 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.
- **Guest Lecturer in Entomology 2410 – Applied Entomology.** Fall Semester 2017; Spring Semesters 2003 through 2018, 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. John Sanderson is the current lecturer for this course.

GRADUATE FIELD MEMBERSHIPS

- **Field of Entomology (2001-present)**
- **Field of Plant Protection (2003-2012)**

MENTORING

A. Undergraduates

Student's Name	Institution	Date	Program
Isabella Yannuzzi	Cornell University	2019	AgriTech Summer Scholar
Lauren Ebels	Calvin College (MI)	2018	AgriTech Summer Scholar
Deanna Gentner	Cornell University	2017	NYSAES Summer Scholar
Erica Moretti	Allegheny College (PA)	2016	NYSAES Summer Scholar
Rachel Wallace	Cornell University	2016	NYSAES Summer Scholar
Sierra Short	Mary Baldwin College (VA)	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
Erica Moretti	M.S.	Entomology	Cornell	2020	Advisor
Ricardo Perez Alvarez	Ph.D.	Entomology	Cornell	2019	Com. member
Lindsay Fennel	M.S./Ph.D	Entomology	Cornell	2020	Com. member

- **Total Completed:**

Student's Name	Degree	Field of Degree	Institution	Completed	My Role
Ashley B. Leach	Ph.D.	Entomology	Cornell	2019	Advisor
Nelson Milano	M.S.	Entomology	Cornell	2018	Co-Advisor
Daniel Olmstead	M.S.	Entomology	Cornell	2015	Com. member

Erik A. Smith	Ph.D.	Entomology	Cornell	2015	Advisor
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
Francisco Badenes-Perez	Ph. D.	Entomology	Cornell	2005	Co-Advisor
Benjamin Werling	M.S.	Entomology	Cornell	2003	Advisor
Sharon McDonald	Ph. D.	Entomology	VA Tech	2001	Co-Advisor

C. Post-doctoral Associates and Research Associates

Name	Title	Period	Current Position
Karly Regan	Post-doc	6/2019 - present	-
Lindsay E. Iglesias	Post-doc	6/2018 - present	-
Rebecca A. Schmidt-Jeffris	Post-doc	5/2015 – 3/2017	Research Scientist, USDA-ARS, Wapato, WA
Anders S. Huseeth	Post-doc	6/2013 – 10/2014	Asst. Prof., NC State Univ., Raleigh, NC
Jessica D. Petersen	Post-doc	4/2011 – 7/2014	Praire Habitat Biologist, Minnesota Dept. Nat. Res., St. Paul, MN
Cynthia L. Hsu	Res. Assoc.	5/2007 – 8/2012	Cyber Security Program Manager, National Rural Electric Cooperative Assoc., Washington D.C.
Derek R. Artz	Post-doc	6/2008 – 10/2010	retired

PROFESSIONAL SOCIETIES

Entomological Society of America (1989-present)

The American Phytopathological Society (2008-present)

Georgia Entomological Society (1988-2011)

American Association for the Advancement of Science (not active)

Phi Kappa Phi (not active)

NATIONAL AND MULTI-STATE PROJECTS

Member, W3008: Integrated onion pest and disease management (2018-present).

Member, W2008: Biology and management of *Iris Yellow Spot Virus* (IYSV), other diseases and thrips in onions (2012-2017).

Member, NC1173: Sustainable Solutions to Problems Affecting Bee Health (2012-2018).

Member, W368: Environmental & Genetic Determinants of Seed Quality and Performance (2002-2018)

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.

2004 Southern Region Integrated Pest Management Center Integrated Pest Management Grants Program– FY 2004. Served on panel. Raleigh, NC. June 2, 2004.

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)
 - Governing Board Liaison to Membership Committee, assigned by President of Entomological Society of America (2002-2003)
 - Governing Board Liaison to Education and Youth Committee, assigned by President of Entomological Society of America (2001-2003)
 - Member of Local Arrangements Committee for Entomological Society of America Annual Meeting, Montreal, Quebec, Canada (2000).
- **Regional/State/Local:**
 - President, Entomological Society of America - Eastern Branch (2019-2020)
 - Co-Chair, Program Committee. Entomological Society of America - Eastern Branch Meeting, Harrisburg, PA (2011)
 - Chair, Organizer and Moderator of the Student Paper and Student Display Competitions at the Entomological Society of America Eastern Branch 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 Entomological Society of America Eastern Branch 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.
 - Member, Judging Committee for Student Paper Competition at Entomological Society of America Eastern Branch Meetings, Springfield, MA (2000) and Harrisburg, PA (2001 and 2003).
 - Chair, Auditing Committee for Entomological Society of America Eastern Branch (1998-2000) and (2004-2006).
 - Member, Local Arrangements Committee for Entomological Society of America Eastern Branch Meetings, Cherry Hill, NJ (1998) and Virginia Beach (1999).
- **College:**
 - Member, Mentoring Committee for Frank Hay (2019-present)

- Member, Search Committee for a Grape Disease Ecologist and Epidemiologist, School of Integratives Plant Sciences, Horticulture Section, Cornell University, NYSAES, Geneva (2017-2018).
 - Member, Mentoring Committee for John Wallace (2017-2018)
 - Member, Search Committee for a Weed Scientist, School of Integratives Plant Sciences, Horticulture Section, Cornell University, NYSAES, Geneva (2016-2017).
 - Member, Promotion and Tenure Committee for an Assistant Professor in CALS, Cornell University, Ithaca (2011)
 - Member, Search Committee for a Plant Virologist, Department of Plant Pathology, Cornell University, NYSAES, Geneva (2003).
 - Chair, Search Committee for an Assistant Professor of Soil Science, Eastern Shore AREC, Virginia Tech (1998-1999).
- **Cornell AgriTech @ the New York State Agricultural Experiment Station**
 - Program Leader, Entomology (2019-present)
 - Member, Summer Scholars Research Program Committee – Entomology representative (2011-2018)
 - Chair, NYSAES Strategic Planning Committee (2013-2014)
 - Chair, Faculty Advisory Committee (2008-2014).
 - Member, Fruit and Vegetable Research Unit Review Panel for NYSAES in Geneva (2007-2017).
- **Department:**
 - Program Leader (2019- present)
 - Director of Graduate Studies (2017-2019)
 - Chair, Mentoring Committee for Denis Willett (2018-2019)
 - Chair, Mentoring Committee for Kyle Wickings (2013-2019)
 - Member, Mentoring Committee for Katja Poveda (2012-2017)
 - Member, Mentoring Committee for Scott McArt (2015-2017)
 - Field of Entomology Graduate Student Admissions Committee (Member 2004-2006; 2013-2015; Chair 2017-2019)
 - Cornell Department of Entomology Awards Committee (Member 2011- 2015; Chair 2014-2015).
 - Chair, Cornell Department of Entomology Search Committee for a Soil Arthropod Ecologist/ Turfgrass Entomologist (2012-2013)

- Member, Cornell Department of Entomology Extension and Outreach Committee (2010-2012)
- Chair, Cornell Department of Entomology Strategic Planning Committee (2010-2011)
- Member, Cornell 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, Search Committee for a Soil Insect Ecologist/Turfgrass Entomologist, Department of Entomology, Cornell University, NYSAES, Geneva (2002)
- Chair, Eastern Shore AREC Field Day, Virginia Tech, Painter (1998)

REVIEWING

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

Journal	Number of manuscripts reviewed		
	2007 - 2016	2017	2018
<i>Agriculture, Ecosystems & Environment</i>	0	2	
<i>American Potato Journal</i>	1		
<i>Australian Journal of Entomology</i>	1		
<i>BioControl</i>	1		
<i>Bulletin of Entomological Research</i>	4		
<i>Crop Protection</i>	6		
<i>Entomologia Experimentalis et Applicata</i>	3		
<i>Environmental Entomology</i>	7	1	
<i>Florida Entomologist</i>	1		
<i>Heredity</i>	1		
<i>International J. of Pest Management</i>	0	0	1
<i>Journal of Agric. and Urban Entomology</i>	1		
<i>Journal of Agricultural Entomology</i>	1		
<i>Journal of Applied Entomology</i>	2		
<i>Journal American Society Hort. Sci.</i>	1		
<i>Journal of Cotton Science</i>	1		
<i>Journal of Economic Entomology</i>	10		1
<i>Journal of Entomological Science</i>	1		
<i>Journal of Insect Science</i>	2		
<i>Journal of Integrated Pest Management</i>	0	2	
<i>Journal of Pollination Ecology</i>	1		
<i>Pest Management Science</i>	5	2	2
<i>Phytopathology</i>	2		
<i>Plant Health Progress</i>	1		
<i>Plant Disease</i>	4		1
<i>Plant Pathology</i>	1		
<i>PloS One</i>	2		
<i>SpringerPlus</i>	1		
<i>Terrestrial Arthropod Reviews</i>	1		
<i>Virus Research</i>	0	1	
TOTAL	61	8	5

- **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)
9. Reviewed grant proposal for USDA/NRI Entomology & Nematology Program in 2004
10. Reviewed grant proposals for USDA/NRI Biologically Based Pest Management in 1999 and 2000.
11. Reviewed grant proposals for USDA National Potato Council in 1999, 2000 and 2001.

- **Promotion and Tenure Packages (Other Universities)**

- Reviewed promotion and tenure package for an Associate Professor at the University of Georgia, Department of Entomology (2018)
- Reviewed promotion and tenure package for an Associate Professor at Texas A&M University, Department of Entomology (2018)
- Reviewed promotion and tenure package for an Associate Professor at Oregon State University, Department of Crop and Soil Science (2016)
- Reviewed promotion and tenure package for an Associate Professor at Oregon State University, Department of Horticulture (2016)
- 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**

- 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.
- 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.
- Co-organized and contributed to Symposium at the 2005 Entomological Society of America Annual Meetings in Ft. Lauderdale, FL. The subject pertained to landscape ecology and pest management of insects that attack vegetable crops.

- **Multi-State Project W1008, 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.