

2016 Curriculum vitae



NAME: John Philip Sanderson
DEPARTMENT/UNIT: Entomology
TITLE: Associate Professor
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BACKGROUND

EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1987	Post-doctoral	University of California, Riverside, Riverside, CA
1986	Ph.D. Entomology	University of California, Riverside, Riverside, CA
1983	M.S. Entomology	University of California, Riverside, Riverside, CA
1977	B.S. Zoology	San Diego State University, San Diego, CA

ACADEMIC RANK:

Associate Professor: 1994 to present

PRIMARY DEPARTMENTAL / Unit PROGRAM AREA: Integrated arthropod pest management for controlled environment agriculture crops, **40% research, 50% extension, and 10% teaching**

AREAS OF EXPERTISE: Integrated pest management, biological control, biology and management of greenhouse crop pests, general entomology, agricultural acarology

PROFESSIONAL EXPERIENCE

<u>Year</u>	<u>Experience</u>
1994-present	Associate Professor of Entomology, Cornell University
1987-1994	Assistant Professor of Entomology, Cornell University
3-12/1986	Post-doctoral Research Scientist, Department of Entomology, University of California, Riverside
1982-1986	Graduate Research Assistant, Department of Entomology, University of California, Riverside
1979-1981	Laboratory Helper, Department of Entomology, University of California, Riverside
Summer 1979	Field Scout, B.F. Chemical Company, Los Banos, California
Summer 1977	Field Assistant, Department of Public Health-Vector Control, San Diego County

HONORS AND AWARDS

Phi Beta Kappa
 Sigma Xi
 Gamma Sigma Delta
 Excellence in IPM Award, 2016, New York State IPM Program

GRANT SUPPORT

Active Grants and Contracts:

Sanderson, J.P. & E. Lamb New York Farm Viability Institute Insect-killing nematodes for biocontrol of greenhouse thrips and fungus gnats.	07/01/2016-06/30/2018 \$105,069
Mattson, N., J. Sanderson, B. Eshenaur, & E. Lamb New York Farm Viability Institute Effective aphid management in greenhouse crops by optimizing biological control and nutrient inputs.	1/1/2015-12/31/2016 \$132,858
Sanderson, J.P. USDA Hatch Multistate Federal Capacity Funds	10/01/2014-09/30/2017 \$89,350
Sanderson, J.P. USDA Hatch Federal Capacity Funds Biocontrol of Greenhouse Aphid Pests	10/1/2013-9/30/2016 \$78,000
Sanderson, J.P. USDA Smith-Lever Federal Capacity Funds Supporting adoption of biocontrol for sustainable pest management in the New York State greenhouse industry.	10/1/2013-9/30/2016 \$66,954

Past Grants and Contracts:

Eshenaur, B., E. Lamb, M. Daughtrey, & J. Sanderson. U.S. E.P.A. Office of Pesticide Programs A webinar series and interactive grower outreach for pesticide resistance management in greenhouses.	10/1/2014-9/30/2015 \$50,000
Lamb, E., N. Mattson, & J. Sanderson. New York Farm Viability Institute Biocontrol in Energy-Saving Cool Temperature Greenhouse Production	04/01/12-09/30/13 \$49,617
Lamb, E., N. Mattson, & J. Sanderson. New York Farm Viability Institute Improving Crop Management in NY Greenhouses Through Local Hands-On Workshops	10/01/11-03/31/13 \$31,610
Nyrop, J., R. Loughner, & J. Sanderson.	09/01/11-02/28/13

USDA-NIFA Pest Management Alternatives	\$90,617
Habitat and Resource Management to Enhance Biological Control in Greenhouses	
Jandricic, S., & J. Sanderson.	08/01/10-10/31/13
USDA-NIFA Northeast SARE Graduate Student Grant	\$14,973
The Use of Banker Plants and the Predatory Midge Aphidoletes Aphidimyza for Aphid Biocontrol in Greenhouse Crops	
Nyrop, J., R. Loughner, & J. Sanderson.	08/15/10-08/14/11
USDA-NIFA Regional Integrated Pest Management	\$58,844
Pollen and Phytoseiid Diet Specialization in Biological Control of Thrips	

REPRESENTATIVE ACADEMIC RESPONSIBILITIES

RESEARCH RESPONSIBILITIES:

•Postdoctoral Associates

Dr. Melanie Filotas (2002-06)

Dr. Todd Ugone (2004-07)

•Other Research Professionals Supervised

Monica Voionmaa (technician 1988-2011)

KC Bennett (technician 1994-2012)

Liza White (technician – current)

TEACHING AND ADVISING RESPONSIBILITIES

Courses Taught:

ENTOM 2010-2011 (Alien Empire – The Bizarre Biology of Bugs); 2 or 3 credit non-majors course that is an introduction to entomology; Spring 2002, 2010, 2012, 2014, 2015

ENTOM 2120 (Insect Biology): 4-credit introductory course of the study of insects; Fall 2005, 2007

Guest lectures

ENTOM 767 (2008, 2010, 2012)

ENTOM 201 (Alien Empire) (2007, 2009, 2011, 2013)

ENTOM 241 (Applied Entomology) (annual 2 lectures and 1 lab, 1996-2011)

ENTOM 277 (Introduction to Biological Control) (2007)

PLHRT 3100 (Production and Marketing of Greenhouse Crops); a guest lecture and a 3-hour guest lab, Spring 1996, 1997, 2005, 2011, 2013, 2015

Undergraduates mentored in Honors and Independent research:

Melissa Sawvell (conducted independent research in Spring/Fall 2006)

Dylan Beal (conducted independent research in 2012-2013)

Current Undergraduate Advisees:

Trebor Hall '17 (Entomology)

Past Undergraduate Advisees:

- Hoki, Evan (Entomology, 2010)
- Huang, Xinyu (Toby) (Entomology, 2010)
- Kuhn, Emily (Entomology, 2010)
- Russell, Avery (Entomology, 2011)
- Falcheck, William (Entomology, 2012)
- Reynolds, Ryan (Entomology, 2013)
- Elkins, Blake (Entomology, 2016)

Past Teaching Assistants (Graduate & Undergraduate) and Other Teaching Support Professionals Supervised:

- Mary Centrella (Grad TA - Spring 2015)
- Ashley Leach (Grad TA - Spring 2015)
- Tessa Lessord (Grad TA - Spring 2015)
- Leticia Smith (Grad TA - Spring 2014)
- Joanna Fisher (Grad TA - Spring 2014)
- Lucy Kafui Kavi (Grad TA - Spring 2014)
- Leo Stellwag (Grad TA - Spring 2014)
- Scott McArt (Grad TA - Spring 2012)
- Elaine Fok (Grad TA - Spring 2012)
- Susan Weibman (Undergrad TA - 2012)
- Sarah Braun (Grad TA - Spring 2010).
- Adam Wong (Grad TA - Spring 2010).
- Sam Ramsey (Undergrad TA - Spring 2010).
- George Lin (Grad TA - 2007).
- Jesse Litman (Grad TA - 2007).
- Linda Burgi (visiting MS student from Switzerland. (2007).
- Eric Denmark (Undergrad TA - 2007).
- Susan Finkbeiner (Undergrad TA - 2007).

Other Relevant Teaching and Advising Activities and Accomplishments:

- Attended the 2-day CALS Teaching Workshop. 6/05.
- Member of the Entomology Curriculum committee.

EXTENSION/OUTREACH RESPONSIBILITIES:

Extension Publications and Presentations (last five years)

	2015	2014	2013	2012	2011	Median
# Extension Publications	3	5	2	1	4	3
# Extension Presentations	5	9	10	18	8	9
Total contact hours	330	570	706	765	1032	706

Program Work Team(s)/Program Councils, Administrative Leadership

- Elected to the CALS Faculty Senate Outreach Policy and Program Committee (2000-2004)
- Dept. Extension Leader, Entomology, Ithaca (1995-2010)
- Prepared the Extension section of the 2006 CSREES Entomology Departmental Review
- Greenhouse Horticulture Program Work Team (PWT) Co-Leader (1998-2008)
- Invited member, Working Group for implementation of IPM on ornamental crops, North Central U.S. IPM Center.

Extension/Outreach Workshops, Field Days, and Conferences

Program Co-organizer:

Insectapalooza! Co-organizer. Oct. 19, 2013. 1800(?) attendees

Insectapalooza! Co-organizer. Oct. 20, 2012. 2500 attendees

Insectapalooza! Co-organizer. Oct. 29, 2011.

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team. 7/21/09. All day. 180 attendees

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team. 7/22/08. All day. 180 attendees

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team. 7/24/07. All day. 175 attendees

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team. 8/8/06. All day. 150 attendees

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team. 8/16/05. All day. 140 attendees

Cornell Greenhouse Open House & Field Day. Organized by the Greenhouse Horticulture Program Work Team, which I co-lead. 7/28/04. All day. 120 attendees

Invited Speaker:

Sanderson, J.P. 2015. Greenhouse Pest and Pesticide Update. CALS Greenhouse Update. Campus. 80 CALS staff and regional growers.

Sanderson, J.P. 2015. Pint-sized Predators. IPM In-Depth Workshop. 3, 1-hour laboratory presentations. July 22. Campus. 45 participants.

Daughtrey, M., J.P. Sanderson, E. Lamb, B. Eshenaur. 2015. IPM Pest Mgt. “Walk-around” for 2015 Floriculture Field Day, Aug. 11. Campus. 35 participants.

Sanderson, J.P., N. Mattson, E. Lamb. 2015. Fertilizer effects on aphid population growth. OMAFRA’s Spring Bedding Trial Open House, Ontario, Canada. August 21. 60 participants.

Sanderson, J.P. Gaining the Upper Hand on Thrips. Northeast Pennsylvania Greenhouse Program. Luzerne County Community College, Nov. 10. 120 growers.

Sanderson, JP, & M. McGrath. 2014. Pesticide Resistance Basics. Pesticide Resistance Management Webinar 1.

http://nysipm.cornell.edu/nursery_ghouse/resistance_mgmt_webinars/default.asp

Sanderson, JP, & E. Lamb. 2014. Using Biological Control I – Good Bugs for Bad Bugs. Pesticide Resistance Management Webinar 5

http://nysipm.cornell.edu/nursery_ghouse/resistance_mgmt_webinars/default.asp

Sanderson, JP. 2014. Biological Control of Aphids. Advanced Biological Control Session, Cultivate’14 Conference, Columbus, OH. (120 in nation-wide attendance)

- Sanderson, JP. 2014. Pesticides and Beneficials – How Pesticides can Influence Biocontrol Organisms. Advanced Biological Control Session, Cultivate'14 Conference, Columbus, OH. (120 in nation-wide attendance)
- Sanderson, JP. 2014. Nematodes: Nice, not Naughty. IPM In Depth Workshop, Cornell University, Ithaca, NY. (35 from NYS in attendance)
- Sanderson, JP. 2014. Managing Pests on Vegetables Grown in Greenhouses or High Tunnels. Southern Tier Greenhouse School, Binghamton, NY. (15 from NYS in attendance)
- Sanderson, JP. 2014. Managing Thrips Pests. Monroe County Greenhouse Conference, Rochester, NY. (25 in NYS attendance)
- Sanderson, JP. 2014. Advanced Biological Control – Aphids. Northeast Greenhouse Conference, Springfield, MA. (85 from NE states in attendance)
- Sanderson, JP. 2014. Managing Pests on Vegetables Grown in Greenhouses or High Tunnels. Ontario County Greenhouse School, Canandaigua, NY. (30 from NYS in attendance)
- Sanderson, J.P. 2013. Some like it hot! Tips on how temperature affects insects. Long Island Greenhouse Conference, Riverhead, NY. Jan. 22. 83 attendees.
- Sanderson, J.P. 2013. Controlling Fungus Gnats and Shoreflies, Pest Control at Cool Temperatures, & New Insecticides for Use in the Greenhouse. NY Producer's Expo. Syracuse OnCenter. Jan. 23. 43 attendees.
- Sanderson, J.P. 2013. Aphid A-B-C's. IPM InDepth Workshop, Oswego Co. Coop. Exten., Mexico, NY. Feb. 23. 18 attendees.
- Sanderson, J.P. 2013. Update on fungus gnat project. Cornell Greenhouse Conference. Campus. March 7. 19 attendees.
- Sanderson, J.P. 2013. Biological control of insect pests. OFA Annual Conference, Columbus, OH. July 13. 260 attendees.
- Sanderson, J.P. 2013. Biological control from a researcher's perspective. OFA Annual Conference, Columbus, OH. July 14. 160 attendees.
- Sanderson, J.P. 2013. Update on greenhouse pests. New York State Agriculture and Markets Horticulture Inspector Training, Albany, NY.
- Sanderson, J.P. 2013. Mischievous mealybugs and sneaky scales. IPM In-Depth Hands-on Workshop. Cornell campus. 27 attendees.
- Sanderson, J.P. 2013. Managing pests on high tunnel vegetables. Cornell Cooperative Extension In-Service Training. Campus. Nov. 19. 23 CCE Educators in attendance.
- Sanderson, J.P. 2013. Resisting resistance: A primer on greenhouse pesticide resistance management. Webinar: NYS IPM Program webinar series.
http://www.nysipm.cornell.edu/nursery_ghouse/resistance_mgmt_webinars/
- Sanderson, J. P. (Presenter & Author). Insect and Mite Management Update. New York Flower Industries Western NY Plant School, Eden, NY. Jan. 10, 2012. 85 attendees.
- Sanderson, J. P. (Presenter & Author). Insect and Mite Management Update. CALS Greenhouse Update. Feb. 8, 2012. Ithaca Campus. 43 attendees
- Sanderson, J. P. (Presenter & Author). Aphid A-B-C's. IPM In-Depth Program, Canandaigua, NY, Feb. 14, 2012. 18 attendees.
- Sanderson, J. P. (Presenter & Author). Aphid A-B-C's. IPM In-Depth Program, Penn Yan, NY, March 8, 2012. 26 attendees.
- Sanderson, J. P. (Presenter & Author). Aphid A-B-C's. IPM In-Depth Program, Saratoga, NY, March 13, 2012. 15 attendees.

- Sanderson, J. P. (Presenter & Author). Entomology Research Update: Fungus Gnats and Aphids. Cornell Floriculture Open House, Mar. 19, 2012. 26 attendees.
- Sanderson, J. P. (Presenter & Author). Insect and Mite Management Update. CALS Greenhouse Update. Apr. 3, 2012. Geneva Campus. 36 attendees.
- Sanderson, J. P. (Presenter & Author). Biological Control: A Greener Solution. Perennial Plant Association National Meeting, Boston, MA. July 8, 2012. 40 attendees.
- Sanderson, J. P. (Presenter & Author). Good Bugs for Bad Bugs. IPM In-Depth Program, Ithaca Campus. July 23, 2012. 30 attendees.
- Sanderson, J. P. (Presenter & Author), S. Jandricic (Presenter & Author). The Good, the Bad, and the Ugly: What's New for Greenhouse Pest Management. Cornell Floriculture Field Day, July 24, 2012. 80 attendees.
- Sanderson, J. P. (Presenter & Author). Aphid A-B-C's. IPM In-Depth Program, Riverhead, Long Island, NY, Sept. 11, 2012. 47 attendees.
- Sanderson, J. P. (Presenter & Author). Aphid A-B-C's. IPM In-Depth Program, Akron, NY, Sept. 19, 2012. 17 attendees.
- Sanderson, J. P. (Presenter & Author)(Invited and Featured speaker). Three presentations: 1. Aphidoletes for control of multiple aphid species; 2. Beauveria bassiana GHA and Thrips Control; 3. Trap Plants for Whiteflies & Behavioral Differences Between Greenhouse Whitefly and Sweetpotato Whitefly (and some other topics). Flowers Canada Pest Management Conference. Niagara, Ontario, Canada, Oct. 2, 2012. 57 attendees
- Sanderson, J. P. (Presenter & Display organizer). Battle of the Bugs. Insectapalooza, Oct. 20, 2012. 2500+ attendees.
- Sanderson, J. P. (Presenter & Author)(Featured speaker). Two presentations: 1. Entomology 101!; 2. Natural Enemies in the Northeast. UMass Extension Biocontrol & Native Plants program. Sturbridge, MA, Oct. 24, 2012. 82 attendees.
- Sanderson, J. P. (Presenter & Author). Managing Insects when Growing Cold, or, 'Some Like It Hot'. Northeast Greenhouse Conference. Worcester, MA, Nov. 8, 2012. 36 attendees
- Sanderson, J. P. (Presenter & Author). Aphids, Thrips, and Mites, Oh My! IPM In-Depth Program, Hudson, NY, Nov. 28, 2012. 13 attendees.
- Sanderson, J. P. (Presenter & Author). Biocontrol – Good Guys against Bad Guys. IPM In-Depth training program for NYS Ag & Mrkts inspectors. Nov. 29, 2012. Albany, NY. 10 inspectors.
- Sanderson, J. P. (Presenter & Author). Insect and Mite Management Update. Southern Tier Growers Assn. Conference. Binghamton, NY. Dec. 12, 2012. 18 attendees.
- Sanderson, J. P. (Presenter & Author), Insectapalooza 2011, "Battle of the Bugs", Cornell University Dept. of Entomology, Ithaca, NY. (October 29, 2011).
- Sanderson, J. P. (Presenter & Author), Southern Tier Greenhouse Crop Production School, "Update on Identifying and Managing Insect & Mite Pests", Cornell Cooperative Extension, Binghamton, NY. (October 25, 2011).
- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "Fighting Fungus Gnats", Cornell Cooperative Extension/New York State IPM Program, Riverhead, NY. (September 14, 2011).
- Sanderson, J. P. (Other), Cornell Floriculture Field Day, "Cornell Floriculture Field Day", Cornell University/Cornell Cooperative Extension, Ithaca, NY. (July 19, 2011).
- Sanderson, J. P. (Presenter & Author), Cornell Floriculture Field Day, "Pests of Herbaceous Perennials Walkabout", Cornell University/Cornell Cooperative Extension, Ithaca, NY. (July 19, 2011).

- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "Winning the Whitefly Wars", Cornell Cooperative Extension/New York State IPM Program, Ithaca, NY. (July 18, 2011).
- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "Aphid A-B-C's", Cornell Cooperative Extension/New York State IPM Program, Oswego, NY. (February 28, 2011).
- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "Fighting Fungus Gnats", Cornell Cooperative Extension/New York State IPM Program, Ithaca, NY. (February 3, 2011).
- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "Aphid A-B-C's", Cornell Cooperative Extension/New York State IPM Program, Rochester, NY. (January 21, 2011).
- Sanderson, J.P. "Fungus Gnat & Thrips Management ". Western NY Greenhouse Conference, New York State Flower Industries, Eden, NY, Jan. 5, 2010. Participants = 102, length = 1 h, total contact hours = 102.
- Sanderson, J.P. IPM In-Depth "Focus on Fungus Gnats" lab workshop. Cornell Coop. Exten. Ulster Co., Jan. 8, 2010. Participants = 34, length = 2 h, total contact hours = 68.
- Sanderson, J.P. IPM In-Depth "Aphid ABC's" lab workshop. Cornell University, July 19, 2010. Participants = 28, length = 2 h, total contact hours = 56.
- Sanderson, J.P. "Landscape insect pest walkabout session". Cornell Floriculture Field Day, Bluegrass Lane, Ithaca, NY. July 20, 2010. Participants = 18, length = 0.75 h, total contact hours = 14.
- Sanderson, J.P. IPM In-Depth "Focus on Fungus Gnats" lab workshop. Cornell Coop. Exten. Albany Co., Sept. 9, 2010. Participants = 22, length = 2 h, total contact hours = 44.
- Sanderson, J.P. IPM In-Depth "Thrips: Up Close and Personal" lab workshop. Cornell Coop. Exten. Suffolk Co., Sept. 10, 2010. Participants = 47, length = 3 h, total contact hours = 141.
- Sanderson, J.P. IPM In-Depth "Aphid ABC's" lab workshop. Cornell Coop. Exten. Niagara Co., Sept. 30, 2010. Participants = 23, length = 2 h, total contact hours = 46.
- Sanderson, J.P. IPM In-Depth "Aphid ABC's" lab workshop. Cornell Coop. Exten. Wyoming Co., Oct. 1, 2010. Participants = 24, length = 2 h, total contact hours = 48.
- Sanderson, J.P. IPM In-Depth "Aphid ABC's" lab workshop. Cornell Coop. Exten. Delaware Co., Oct. 15, 2010. Participants = 16, length = 1 h, total contact hours = 16.
- Sanderson, J.P. IPM In-Depth "Focus on Fungus Gnats" lab workshop. Cornell Coop. Exten. Dutchess Co., Oct. 29, 2010. Participants = 16, length = 1 h, total contact hours = 16.
- Sanderson, J.P. "Biocontrol Beyond Ladybugs". Cornell Coop. Extension In-Service Educator Training, Ithaca, NY. Nov. 18, 2010. Participants = 9, length = 1h, total contact hours = 9.
- Sanderson, J.P. IPM In-Depth "Aphid ABC's" lab workshop. Cornell Coop. Exten. Tompkins Co., Dec. 9, 2010. Participants = 19, length = 2 h, total contact hours = 38.
- S. Jandricic, J. Sanderson, & S. Wraight. "How "Picky" midges affect pesky aphids: Investigations of *Aphidoletes aphidimyza* for foxglove aphid biocontrol in floriculture". Flowers Canada Pest Management Conference, Flowers Canada, Niagara, Ontario. Aug. 26, 2010. participants = 65, length = 0.33 h, total contact hours = 21.45.
- Sanderson, J.P. "Updates on Biocontrol". Northeast Greenhouse Conference, Worchester, MA, Nov. 3, 2010. Participants = 280, length = 1 h, total contact hours = 280.
- Sanderson, J.P. "Managing Pests on Edible Greenhouse Crops". Northeast Greenhouse Conference, Worchester, MA, Nov. 4, 2010. Participants = 210, length = 0.5 h, total contact hours = 105.
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological

- Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Ithaca NY. (December 4, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Hamburg NY. (November 6, 2009).
- Lamb, E. M. (Organizer), Mattson, N. S. (Presenter & Author), Sanderson, J. P. (Presenter & Author), Greenhouse IPM In-depth Hands-on Workshop, "Greenhouse IPM In-depth Hands-on Workshop", NYS IPM Ornamentals Team, Rochester NY. (November 5, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Cooperstown NY. (October 30, 2009)
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Latham. (October 29, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Walden NY. (October 23, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Jamesport NY. (October 22, 2009).
- Sanderson, J. P. (Organizer), Insectapalooza, "Battle of the Bugs", Cornell Dept. of Entomology, Ithaca, NY. (October 3, 2009).
- Lamb, E. M. (Organizer), Mattson, N. S. (Presenter & Author), Sanderson, J. P. (Presenter & Author), Greenhouse IPM In-depth Hands-on Workshop, "Greenhouse IPM In-depth Hands-on Workshop", NYS IPM Ornamentals Team, Binghamton NY. (October 2, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Cicero NY. (October 1, 2009).
- Lamb, E. M. (Organizer), Sanderson, J. P. (Presenter & Author), Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application, "Using Biological Control in the Greenhouse: On-Farm Workshop on Identification and Application", NYS IPM Ornamentals Team, Plattsburgh NY. (September 17, 2009).
- Braun, S. (Presenter & Author), Daughtrey, M. L. (Author Only), Wraight, S. (Author Only), Sanderson, J. P. (Author Only), Cornell Floriculture Field Day, "Fungus gnats and Pythium in the attack on greenhouse plants: conspirators or just cohabitants?", Cornell Greenhouse Horticulture Program Work Team, Ithaca, NY. (July 21, 2009).
- Jandricic, S. (Presenter & Author), Wraight, S. (Author Only), Nyrop, J. P. (Author Only), Sanderson, J. P. (Author only), Cornell Floriculture Field Day, "One to watch: Foxglove aphid", Cornell Greenhouse Horticulture Program Work Team, Ithaca, NY. (July 21, 2009).

- Sanderson, J. P. (Presenter & Author), Cornell Floriculture Field Day, "Managing pests on edible greenhouse crops", Cornell Greenhouse Horticulture Program Work Team, Ithaca, NY. (July 21, 2009).
- Sanderson, J. P. (Presenter & Author), IPM In-Depth, "IPM In-Depth: Aphid ABC's", New York State IPM Program, Ithaca, NY. (July 20, 2009).
- Sanderson, J. P. (Presenter & Author), CALS Greenhouse Update, "A primer on managing insecticide resistance", CALS Greenhouse Management, Ithaca, NY. (February 25, 2009).
- Sanderson, J. P. (Presenter & Author), Monroe County Plant School, "Management of thrips and other greenhouse pests", Cornell Cooperative Extension of Monroe County, Rochester, NY. (February 4, 2009).
- Sanderson, J. P. (Presenter & Author), Monroe County Plant School, "Management of thrips and other greenhouse pests", Cornell Cooperative Extension of Monroe County, Rochester, NY. (February 4, 2009).
- Sanderson, J. P. (Presenter & Author), Western New York Plant School, "Winning the bug wars", New York State Flower Industries, Eden, NY. (January 30, 2009).
- Sanderson, J. P. (Presenter & Author), Long Island Plant School, "Winning the bug wars: managing resistance, and bug-to-bug combat", Cornell Cooperative Extension of Suffolk Co., Ronkonkoma, NY. (January 20, 2009).
- Sanderson, J. P. (Presenter & Author), Hudson Valley Bedding Plant School, "Greenhouse insect pesticide resistance, biocontrols, and pesticide update", Cornell Cooperative Extension of Orange and Ulster Counties, New Paltz, NY. (January 14, 2009).
- Sanderson, J. P. (Presenter & Author), Capital District Bedding Plant School, "New bugs, new pesticides, and new biological control ideas", Cornell cooperative Extension of Schenectady County, Latham, NY. (January 13, 2009).
- Sanderson, J. 2008. Thrips: Up close and personal. IPM In-Depth Workshop, Cornell Univ., Ithaca. 30 growers in two 1-h sessions.
- Sanderson, J.P. 2008. Insect wars: Battling some big pests. Cornell Floriculture Field Day, Cornell Univ., Ithaca. 125 attendees.
- Sanderson, J.P. 2007. Options for Biocontrol of Insect Pests in the Greenhouse. Ronkonkoma, Long Island. 80 growers.
- Sanderson, J.P. 2006. ABC's of the Q-biotype whitefly. Cornell Greenhouse Field Day. 140 growers.
- Sanderson, J.P., M. Daughtrey, D. Gilrein. 2006. Conference call with 9 extension educators regarding the 2006 Pest Mgt. Guidelines for Floriculture Crops. 2 hrs.
- Sanderson, J.P. 2006. Insecticide Modes of Action and Managing Resistance with Greenhouse Pests. Cornell Annual Greenhouse Update. Ithaca. 1 hr. 55 greenhouse staff, technicians, researchers, faculty.
- Sanderson, J.P. 2006. Insecticide Modes of Action and Managing Resistance with Greenhouse Pests. Cornell Annual Greenhouse Update. Ithaca. Geneva Exp. Stn.. 1 hr. 45 greenhouse staff, technicians, researchers, faculty.
- Sanderson, J.P. 2006. What we already know: Reminders of previous research on whitefly pest management on poinsettias. Floral Industry Task Force Meeting on the Q-biotype of *Bemisia tabaci* in the U.S. Norwalk, CA.

Policy Engagement/Leadership

In 1997, I developed the idea and led the assembly of the first Greenhouse Industry Advisory Board, to provide feedback and advice on the research, teaching, and extension efforts of those Cornell faculty and staff with involvement in the NYS greenhouse industry. This occurred before Extension Administration called for the formation of Program Work Teams. Our Advisory Board was looked at as a model example. The 12-plus member Advisory Board continues to meet twice annually.

I was elected to the CALS Faculty Senate Outreach Policy and Program Committee (2000-2004), which was tasked to reexamine the disconnection that had developed between CCE Administration and campus faculty. Among other efforts, we held a one-day retreat for CALS faculty to examine the issue, and then formed a CALS Cooperative Extension Post-Faculty Retreat Committee (2003-4) on which I served, to address and provide suggestions to CCE Administration about the major issues that were identified at the retreat.

Greenhouse Program Work Team (PWT) meeting with Cornell Greenhouse Industry Advisory Board and representatives from NYS Farm Bureau and NYS Dept. Agric. & Mrkts. 1/23/04. All day. 10 Board members plus 12 PWT members. Along with the PWT, I co-organized and co-led the meeting along with the Board chairperson. Accomplished an initial connection between the NY greenhouse industry leaders and Ag. & Mrkts. and Farm Bureau for long-term benefits for the greenhouse industry.

As part of the Greenhouse PWT leadership, encouraged the Greenhouse Industry Advisory Board to work toward a unified statewide organization that represents the NY greenhouse industry when advocating for the needs of the industry to Albany, CALS, etc. The PWT supported the New York State Flower Industries organization to serve as a statewide greenhouse organization.

Other Relevant Extension/Outreach Activities, Accomplishments

1989 County Agent IPM Training Tour to Florida:

Co-organized and secured funding for a tour for 8 NYS County Agents and IPM Specialists to attend the Society of American Florist's 5th Conference on Pest & Disease Management in Orlando, Florida, along with a post-conference tour of major greenhouse IPM research facilities and greenhouse operations where IPM strategies are being implemented.

Co-authored the Position Descriptions and Position Justifications for the Applied Arthropod Ecologist for Woody Ornamentals faculty position and for the Urban Entomologist faculty position. Each was prepared/revised three different times.

As Dept. Extension Leader, prepared the Extension section of the 2006 CSREES Entomology Departmental Review; participated in several discussion sessions with the review panel; with the Ithaca Chair, prepared the Extension response to the panel's report.

GRADUATE FIELD MEMBERSHIPS: Entomology, Plant Protection

GRADUATE ADVISING

Masters Thesis Special Committee Chair

Desurmont, Gaylord. (graduated 2006).

Masters Thesis Special Committee Member

Turnipseed, Rakim (graduated 2013)

PhD Special Committee Chair

Braun, Sarah. (Fall 2008 - Spring 2011).

Jandricic, Sarah. (Fall 2008 - Summer 2013).

Lee, Doo Hyung. (Co-chair with Jan Nyrop) (Fall 2007 - Summer 2011).

Professional Masters Special Committee Chair

Pundt, Leanne. (1992).

REPRESENTATIVE PROFESSIONAL ACTIVITIES

PROFESSIONAL SOCIETIES:

Entomological Society of America (1980-present)

International Organization for Biological Control

COMMITTEE ASSIGNMENTS:

International/National:

Co-convenor, Working Group on Biological and Integrated Control of Greenhouse Pests, Temperate Climates, IOBC Nearctic Regional Section (2005-2013)

Member, Executive Committee, USDA Interagency Sweetpotato Whitefly ad hoc Working Group (1990-1996)

Member, Floral Industry Task Force on Q-biotype of Bemisia tabaci (2006)

Program Co-Chair, 1993 ESA Eastern Branch Meeting, Williamsburg, VA

Judge, Students' Competition for the President's Prize, Section C, 2005 Entomol. Soc. Amer. National Mtg., Ft. Lauderdale, FL.

Judge, Students' Competition for the President's Prize, Section C, 1990 Entomol. Soc. Amer. National Mtg., New Orleans

Committee Member, 1988 ESA Eastern Branch Conference Program Committee

University/College:

CALS Faculty Senate Outreach Policy and Program Committee (2000-2004)

CALS Cooperative Extension Post-Faculty Retreat Committee (2003-4)

CALS Faculty Advisory Committee for Plant Growth Facilities (2003-present)

CALS Search Committee for CALS Greenhouse Manager (2006-2007)

Invited member of committee to advise on selection of Research Leader for USDA/ARS Federal Plant, Soils, & Nutrition Lab, Cornell Campus, Ithaca (2004)

Member Ad Hoc Tenure Review Committee (2006?)

Mentoring Committee member for an Asst. Professor in a CALS department (2008-2013)

Cornell Greenhouse Best Management Practices Committee for DEC compliance

Frequently participate in greenhouse pest management training programs and serve as expert resource for CALS greenhouse staff in Ithaca and Geneva.

NYS IPM Program Ornamentals Commodity Committee (2003-present)

NYS IPM Ornamentals Coordinator Search Committee (2005-2006)

Field of Plant Protection M.P.S. Graduate Student Admissions Committee, 1990-1996

Project Coordinator, CALS Insect & Plant Disease Diagnostic Laboratory, 1990-1992

CALS Ad Hoc Committee: Orientation Program for New Extension Faculty, 1995-96

Department:

Jugatae Faculty Advisor. (2011 - Present).
Committee Member, Department Executive Committee (1994-1998)
Chair, Entomology Insectary/Greenhouse Committee (1990-2003)
Committee Member, Field of Entomology Graduate Student Admissions Committee (1988-90)
Committee Member, Long Island Entomology Position Search Committee (1990, 1992)
Chair, Field Crops Entomology Faculty Research/Teaching Position Search Committee (1990)
Chair, Apiculturist Faculty Position Search Committee (1995)
Committee Member, Medical Entomology Faculty Position Search Committee (2000)
Committee Member, Extension & Outreach Committee. (2010 - Present).
Committee Co-chair, Insectapalooza Planning Committee. (2011, 2012, 2013); Committee Member (May 2008 - October 2010).
Committee Member, Entomology Department Merger Committee. (2009 - 2010).
Committee Member, Entomology Curriculum Committee. (January 2008 - present).
Committee Chair, Entomology (Ithaca) Department Extension. (January 1995 - December 2010).
Committee Member, Griswold Committee (2012-2015); Committee Chair (2016)

REPRESENTATIVE PROFESSIONAL CONTRIBUTIONS

Grant/Proposal Review Panel Member

Binational Agricultural Research & Development Fund (BARD), 20 reviews. (September 2011 - March 2012).
Binational Agricultural Research & Development Fund (BARD), 20 reviews. (September 2012 - March 2013).

Anonymous Grant Proposal Reviewer

New York State IPM Program Ornamentals Grant Program. (2008, 2012).
USDA/NRI and USDA/SARE Grants. (2006, 2008, other?).
Hatch Proposal reviewer for CALS.

Anonymous Peer Journal Manuscript Reviewer

Ad hoc Reviewer for Biological Control, Environmental Entomology, J. Econ. Entomol., 6 reviews. (June 2011 - December 2013). (Other records not recorded for J. Econ. Entomol., Fla. Entomol., Biological Control, Pest Management Science, BioControl, others)

Research Unit Review Panel Member

Academic Review Panel for the In-Depth Program Review of the U.S. National Arboretum - USDA/ARS Floral & Nursery Plants Research Unit, Beltsville, MD. (1996).

INVITED RESEARCH PRESENTATIONS

- Sanderson, J.P., Sarah Jandricic, Melanie Filotas and Stephen P. Wraight. 2013. Pathogenicity of entomopathogenic fungi against three greenhouse aphid pests. In: Biological Control Symposium: Ent. Soc. Amer. Eastern Br. Mtg.
- Jandricic, S. (Presenter & Author), Sanderson, J. P. (Author Only), Wraight, S. (Author Only), IOBC Working Group “Integrated Control in Protected crops, Temperate Climate” International Meeting, "Aphidoletes aphidimyza oviposition behaviour when multiple aphid pests are present in the greenhouse", IOBC/WPRS, Sutton Scotney (United Kingdom). (September 2011).
- Sanderson, J. P. (Presenter & Author), Geneva Entomology Seminar Series, "Biological control: Insights from the greenhouse", Dept. of Entomology, NYSAES, Geneva, NY. (November 17, 2009).
- Sanderson, J. P. (Presenter & Author), Wraight, S. (Author Only), Daughtrey, M. L. (Author Only), Floriculture & Nursery Research Initiative Researchers Meeting, "Integrated management of arthropod pests and root diseases of greenhouse floriculture", USDA/ARS, Indianapolis, IN. (October 14, 2009).
- Jandricic S, Sanderson JP, Wraight S. 2008. Intraguild predation among biological control agents used in greenhouse floriculture crops: a preliminary review. Invited presentation in: Intl. Org. Biol. Control West. Palearctic Reg. Section Working Group “Integrated Control in Protected Crops” International mtg., Sint Michielsgestel, The Netherlands.
- Lee, D-H., J. Nyrop, & J. Sanderson. 2008. The potential of eggplant as a trap crop for the management of *Trialeurodes vaporariorum* (Homoptera: Aleyrodidae) on poinsettia. Invited presentation in: Intl. Org. Biol. Control West. Palearctic Reg. Section Working Group “Integrated Control in Protected Crops” International mtg., Sint Michielsgestel, The Netherlands.
- Sanderson, J.P., L. Shipp, R. Buitenhuis, G. Murphy, & Doo Hyung Lee. 2008. Trap plants as a new strategy to optimize biological control and IPM of greenhouse pests. XXII Congresso Brasileiro de Entomologia in Uberlandia, Minas Gerais, Brasil.
- Sanderson, J.P. 2007. Toward effective and affordable insect biocontrol for greenhouse floral crops: Insights from three systems. Departmental Seminar, Ohio Agric. Res. & Dev. Ctr., Ohio State Univ., Wooster, Ohio
- Sanderson, J.P. 2006. Insects invading greenhouses: some good news and some bad news. Symposium: New Pests, New Solutions. Entomol. Soc. Amer. Eastern Branch meeting, Charlottesville, VA.
- Sanderson, J., & S. Wraight. 2006. Progress from Cornell/USDA Pest Mgt. Research. USDA Floral & Nursery Research Initiative Researchers Meeting, Portland, OR.

RESEARCH CONFERENCE ACTIVITIES

Symposium organizer:

- Sanderson, J.P. & M.P. Parrella, (Co-Organizer/Moderator), 2013. Advances in greenhouse arthropod pest management. ESA Annual Meeting, Austin, TX. Nov. 10.
- Sanderson, J.P., & S.D. Frank. (Co-Organizer/Moderator), 2012. Advances in the Management of Some Global Pests in Greenhouses. Member Symposium, Entomol. Soc. Amer. Annual Mtg., Knoxville, TN. Nov. 13.

- Sanderson, J. P. (Co-Organizer), Member Symposium: Advances In the Use of IPM for Arthropod Management In Greenhouses, Entomological Society of America, Indianapolis, IN. (December 13, 2009).
- Sanderson, J. P. (Co-Organizer), Member Symposium: The Changing Nature of Insect Management in Greenhouses: Staying One Step Ahead of Arthropod Pests, Entomological Society of America, Reno, NV. (December 2008).

Presentations:

- Sanderson, J.P., E. Shields, A. Testa, & L. White. 2014. Evaluating entomopathogenic nematodes for use against greenhouse pests. In: Member Symposium, Entom. Soc. Amer. Ann. Meeting, Portland, OR.
- Jandricic, S., Stephen P. Wraight, Dave R. Gillespie, & John P. Sanderson. 2013. Aphid hide-and-seek: why within-plant location of pests matters in a biological control program for multiple aphid species. Student paper competition, Ent. Soc. Amer. Ann. Mtg., Austin, TX.
- Mattson, N., E. Lamb, B. Eshenaur, & J. Sanderson. 2013. IPM In-depth: A New York model for hands-on interactive greenhouse workshops. Nat. Floric. Forum.
- Sanderson, J.P., N. Mattson, & E. Lamb. 2013. Interactions among fungus gnats, growing media, cool growing temperatures, and natural enemies. In: ESA Member symposium: Advances in greenhouse arthropod pest management. ESA Annual Meeting, Austin, TX.
- Wraight, Stephen P., Melanie Filotas, Todd Uguine, Mark E. Ramos, & John P. Sanderson. 2013. Wettable powder vs. emulsifiable oil formulations of entomopathogenic fungi for microbial biological control. In: Member Symposium: Advances in greenhouse arthropod pest management. Ent. Soc. Amer. Ann. Mtg., Austin, TX.
- Lamb, E., B. Eshenaur, N. Mattson, J. Sanderson, & K. Dean Hall. 2012. On the Road Again: Taking Hands-on Greenhouse IPM Workshops to the Growers. 7th International IPM Symposium. Memphis, TN. March 27-29.
- Lee, D-H, J.P. Sanderson, & J.P. Nyrop. (August 2012) Influence of predator-avoidance behavior on the movement patterns of whiteflies in greenhouse. 24th International Congress of Entomology, Daegu, Korea.
- Sanderson, J.P. (Presenter & Author), E. Lamb, B. Eschenaur, D. Gilrein, N. Catlin, & K. Hall. (2012). Supporting the Implementation of Greenhouse Biological Control with Cooperative Extension Programming in New York. In: Advances in the Management of Some Global Pests in Greenhouses. Member Symposium, Entomol. Soc. Amer. Annual Mtg., Knoxville, TN. Nov. 13.
- Jandricic, S.E., M. Filotas, J.P. Sanderson, & S.P. Wraight,. (2012). Pathogenicity of entomopathogenic fungi against the greenhouse pests green peach aphid (*Myzus persicae* Sulzer), cotton aphid (*Aphis gossypii* Glover) and foxglove aphid (*Aulacorthum solani* Kaltentbach). In: Advances in the Management of Some Global Pests in Greenhouses. Member Symposium, Entomol. Soc. Amer. Annual Mtg., Knoxville, TN. Nov. 13.
- Jandricic, S. (Author Only), Wraight, S. (Author Only), Sanderson, J. P. (Presenter & Author), Entomological Society of America Annual Meeting, "Aphidoletes aphidomyza (Diptera: Cecidomyiidae) for biological control of multiple aphid species in greenhouses", Entomological Society of America, Reno, NV. (November 2011).
- Sanderson, J. P. (Presenter & Author), Loughner, R. (Author Only), Wentworth, K. (Author Only), Nyrop, J. P. (Author Only), Entomological Society of America Annual Meeting,

- "Habitat and resource management to enhance biological control in greenhouses", Entomological Society of America, Reno, NV. (November 2011).
- Lee, D.-H. (Presenter & Author), Nyrop, J. P. (Author Only), Sanderson, J. P. (Author Only), Entomological Society of America Annual Meeting, "Non-consumptive predator effect of *Delphastus catalinae* on the reproductive success of whiteflies", Entomological Society of America, Reno, NV. (November 2011).
- Sanderson, J. P. (Presenter & Author), Ugine, T. A. (Author Only), Wraight, S. P. (Author Only), Shipp, L. (Author Only), Wang, K. (Author Only), Nyrop, J. P., Annual Entomological Society of America Meeting, "Binomial sampling of western flower thrips, *Frankliniella occidentalis*, infesting flowering greenhouse crops using incidence-mean models.", Entomological Society of America, San Diego, CA. (December 2010).
- Holden, M. H. (Presenter & Author), Lee, D.-H. (Author Only), Nyrop, J. P. (Author Only), Sanderson, J. P. (Author Only), Annual Entomological Society of America Meeting, "Hold'em or fold'em: Nonlinear effects of pest retention on trap cropping efficacy", Accepted, Entomological Society of America, San Diego, CA. (December 2010).
- Lee, D. H. (Presenter & Author), Nyrop, J. P. (Author Only), Sanderson, J. P. (Author Only), Annual Entomological Society of America Meeting, "Non-lethal interactions between whiteflies and their natural enemies in greenhouses.", Entomological Society of America, San Diego, CA. (December 2010).
- Jandricic, S. E. (Presenter & Author), Sanderson, J. P. (Author Only), Wraight, S. P. (Author Only), Annual Entomological Society of America Meeting, "Oviposition preference of the predatory midge *Aphidoletes aphidomyza* for the biological control of greenhouse aphid pest species.", Entomological Society of America, San Diego, CA. (December 2010).
- Lee, D.-H., Nyrop, J. P., Sanderson, J. P., Annual Meeting Entomological Society of America, "Avoidance behavior of adult whiteflies (*Bemisia argentifolii*) to predatory beetles on cucumber and its implication in pest management.", Invited, Entomological Society of America, San Diego, CA. (December 2010).
- Braun, S. A., Castrillo, L. A., Sanderson, J. P., Daughtrey, M. L., Wraight, S. P., Entomological Society of America Annual Meeting, "Transtadial transmission of *Pythium* in *Bradysia impatiens* (Diptera: Sciaridae) and investigations of fungus gnat vectoring capacity", Entomological Society of America, San Diego, CA. (December 2010).
- Lee, D.-H., Nyrop, J. P., Sanderson, J. P., Joint IOBC Nearctic and Neotropic Regional Sections Conference, "A use of natural enemies as a "push component" in trap crop systems for whitefly management", Accepted, International Organization of Biological Control, Niagara Falls, Ontario, Canada. (December 2010).
- Sanderson, J. P. (Presenter & Author), Diptera Day, "An Unexpected Surprise: A Hunter Fly, *Coenosia attenuata*, in North American Greenhouses", Cornell University, Ithaca, NY. (March 24, 2010).
- Lee, D.-H. (Presenter & Author), Nyrop, J. P., Sanderson, J. P. (Author Only), Annual Entomological Society of America Meeting, "Eggplant as a trap crop for *Trialeurodes vaporariorum* (Hemiptera: Aleyrodidae) on greenhouse poinsettia: effect of host plant experience on trap cropping efficacy", Accepted, Entomological Society of America, Indianapolis, Indiana. (2009).
- Nyrop, J. P. (Author Only), Lee, D.-H. (Presenter & Author), Sanderson, J. P. (Author Only), Annual Entomological Society of America Meeting, "Trap cropping for whiteflies on

- greenhouse poinsettia: non-consumptive effect of natural enemies on trap cropping efficacy", Invited, Entomological Society of America, Indianapolis, Indiana. (2009).
- Braun, S. (Presenter & Author), Sanderson, J. P., Daughtrey, M. L. (Author Only), Wraight, S. (Author Only), Annual Entomological Society of America Meeting, "Oviposition by the fungus gnat *Bradysia impatiens* (Diptera: Sciaridae) on geranium plants (*Pelargonium x hortorum*) inoculated with microorganisms", Entomological Society of America, Indianapolis, IN. (December 14, 2009).
- Braun, S. (Presenter & Author), Castrillo, L. A., Sanderson, J. P., Daughtrey, M. L. (Author Only), Wraight, S. (Author Only), Member Symposium: Advances In the Use of IPM for Arthropod Management In Greenhouses, "Likelihood of *Pythium* spp. transmission by fungus gnats (*Bradysia impatiens*) in greenhouses", Entomological Society of America, Indianapolis, IN. (December 13, 2009).
- Braun, S. (Presenter & Author), Castrillo, L. A. (Author Only), Sanderson, J. P. (Author Only), Daughtrey, M. L. (Author Only), Wraight, S. (Author Only), Annual American Phytopathological Society Meeting, "Lack of *Pythium aphanidermatum* transmission by adult fungus gnats (*Bradysia impatiens*) and investigation of larval vectoring capacity", American Phytopathological Society, Portland, OR. (August 3, 2009).
- Arnold, S. E. (Presenter & Author), Nelson, E. B. (Author Only), Sanderson, J. P. (Author Only), Daughtrey, M. L. (Author Only), Wraight, S. P. (Author Only), American Phytopathology Society Annual Meeting, "Effect of fungus gnat *Bradysia impatiens* (Diptera: Sciaridae) feeding on subsequent *Pythium aphanidermatum* infection of geranium seedlings (*Pelargonium x hortorum*)", American Phytopathology Society, MN. (2008).
- Arnold, S. E. (Presenter & Author), Wraight, S. P. (Author Only), Nelson, E. B. (Author Only), Sanderson, J. P. (Author Only), Entomological Society of America - Eastern Branch Meeting, "Oviposition by the fungus gnat *Bradysia impatiens* (Diptera: Sciaridae) on *Pythium* spp. infected geranium plants (*Pelargonium x hortorum*).", Entomological Society of Am, Syracuse, NY. (2008).
- Sanderson, J. P., Member Symposium: The Changing Nature of Insect Management in Greenhouses: Staying One Step Ahead of Arthropod Pests, "Open-rearing systems to enhance biocontrol adoption in greenhouse floriculture", Entomol. Soc. Amer. Ann. Mtg., Reno, NV. (2008).
- Arnold, S. E. (Presenter & Author), Sanderson, J. P. (Author Only), Nelson, E. B. (Author Only), Daughtrey, M. L. (Author Only), Wraight, S. P. (Author Only), Annual Meeting Entomology Society of America, "Lack of *Pythium aphanidermatum* transmission by adult fungus gnats (*Bradysia impatiens*)", Accepted, ESA, Reno, NV. (November 2008).
- Lee, D. H. (Presenter & Author), Nyrop, J. P. (Author Only), Sanderson, J. P. (Author Only), Entomological Society of America Annual Meeting, "Attractiveness of three cucurbit plants to the silverleaf whitefly, *Bemisia argentifolii* (Homoptera: Aleyrodidae), and their potential as a trap crop for whitefly management on poinsettia", Entomological Society of America, Reno, NV. (November 2008).
- Sanderson, J. P. (Presenter & Author), Entomological Society of America Annual Meeting, "Open-rearing systems to enhance biocontrol adoption in greenhouse floriculture.", Entomological Society of America, Reno, NV. (November 2008).
- Arnold, S. E. (Presenter & Author), Nelson, E. B. (Author Only), Sanderson, J. P. (Author Only), Daughtrey, M. L. (Author Only), Wraight, S. P. (Author Only), Annual Meeting of The American Phytopathological Society (APS), "Effect of fungus gnat *Bradysia impatiens*

(Diptera : Sciaridae) feeding on subsequent *Pythium aphanidermatum* infection of geranium seedlings (*Pelargonium x hortorum*)", Accepted, APS, Minneapolis, MN, US. (July 26, 2008).

- Lee, Doo Hyung, J. Nyrop, & J. Sanderson . 2007. Relative attraction of *Trialeurodes vaporariorum* and *Bemisia argentifolii* to eggplant and poinsettia, and implications for use in whitefly management on poinsettias. Invited. Entomol. Soc. Amer. National Meeting, San Diego, CA.
- Wraight, S., M. Filotas, & J. Sanderson. 2007. Evaluation of entomopathogenic fungi for management of the greenhouse aphid pests *Aphis gossypii* and *Myzus persicae*. Invited. Entomol. Soc. Amer. National Meeting, San Diego, CA.
- Sanderson, J.P., T. Ugine, S.P. Wraight, and E. Sensenbach. 2006. An unexpected surprise: A hunter fly, *Coenosia attenuata*, in North American greenhouses. Invited. Section E Symposium: Implementation of Pest Management in Greenhouses: Challenges, Consequences, and Opportunities. Entomol. Soc. Amer. National Meeting, Indianapolis, IN.

RESEARCH PUBLICATIONS - JOURNAL ARTICLES

Peer- Reviewed:

Published:

72. Wraight, SP, TA Ugine, ME Ramos, JP Sanderson. 2016. Efficacy of spray applications of entomopathogenic fungi against western flower thrips infesting greenhouse impatiens under variable moisture conditions. *Biological Control* 97, 31-47.
71. Wraight, SP, MJ Filotas, JP Sanderson. 2016. Comparative efficacy of emulsifiable-oil, wettable-powder, and unformulated-powder preparations of *Beauveria bassiana* against the melon aphid *Aphis gossypii*. *Biocontrol Science and Technology*, 26(7): 894-914.
70. Jandricic, SE , M Filotas, JP Sanderson, & SP Wraight. 2014. Pathogenicity of conidia-based preparations of entomopathogenic fungi against the greenhouse pest aphids *Myzus persicae*, *Aphis gossypii*, and *Aulacorthum solani* (Hemiptera: Aphididae). *Journal of invertebrate pathology* 118, 34-46.
69. Jandricic, SE , NS Mattson, SP Wraight, & JP Sanderson. 2014. Within-Plant Distribution of *Aulacorthum solani* (Hemiptera: Aphididae), on Various Greenhouse Plants with Implications for Control. *Journal of Economic Entomology* 107 (2), 697-707.
68. Lee, D.-H., J.P. Nyrop & J.P. Sanderson. 2014. Non-consumptive effects of predatory beetle, *Delphastus catalinae* (Coleoptera: Coccinellidae), on habitat use patterns of adult whitefly, *Bemisia argentifolii* (Hemiptera: Aleyrodidae). *Applied Entomology and Zoology* 49: 599-606.
67. Jandricic, SE, SP Wraight, DR Gillespie, & JP Sanderson. 2013. Oviposition behavior of the biological control agent *Aphidoletes aphidimyza* (Diptera: Cecidomyiidae) in environments with multiple pest aphid species (Hemiptera: Aphididae). *Biological Control* 65 (2), 235-245.
66. Mattson, NS, EM Lamb, B Eshenaur, & J Sanderson. 2013. IPM In-depth: A New York model for hands-on interactive greenhouse workshops. *HortTechnology* 23 (6), 796-799.
65. Ugine, TA , SP Wraight, & JP Sanderson. 2013. Microbial biological control potential of three strains of *Beauveria bassiana* against greenhouse shore fly *Scatella tenuicosta*:

- Assessment of virulence, mass production capacity, and effects on shore fly reproduction. *Biological Control* 65 (3), 348-356.
64. Braun, S.E., J.P. Sanderson, M.L. Daughtrey & S.P. Wraight. (2012). Attraction and oviposition responses of the fungus gnat *Bradysia impatiens* to microbes and microbe-inoculated seedlings in laboratory bioassays. *Entomologia Experimentalis et Applicata* 145: 89–101.
 63. Braun, S. E., J.P. Sanderson, & S.P. Wraight. (2012). Larval *Bradysia impatiens* (Diptera: Sciaridae) potential for vectoring *Pythium* root rot pathogens. *Phytopathology* 102:283-289.
 62. Holden, M.H., S.P. Ellner, D.-H. Lee, J.P. Nyrop & J.P. Sanderson (2012). Designing an effective trap cropping strategy: the effects of attraction, retention and plant spatial distribution. *Journal of Applied Ecology* 49(3): 715–722.
 61. Lee, D.-H., Nyrop, J. P., Sanderson, J. P. (2011). Avoidance of natural enemies by adult whiteflies, *Bemisia argentifolii*, and effects on host plant choice. *Biological Control*, 58, 302-309.
 60. Ugine, T. A., Sanderson, J. P., Wraight, S. P., Shipp, L., Wang, K., Nyrop, J. P. (2011). Binomial sampling of western flower thrips, *Frankliniella occidentalis* (Thysanoptera: Thripidae) infesting flowering greenhouse crops using incidence-mean models. *Environmental Entomology*, 40 (2), 381-390.
 59. Ugine, T. A., Sensenbach, E. J., Sanderson, J. P., Wraight, S. P. (2010). Biology and feeding requirements of larval hunter flies *Coenosia attenuata* (Diptera: Muscidae) reared on larvae of the fungus gnat *Bradysia impatiens* (Diptera: Sciaridae). *Journal of Economic Entomology*, 103 (4), 1149-1158.
 58. Jandricic, S. E., Wraight, S. P., Bennett, K. C., Sanderson, J. P. (2010). Developmental Times and Life Table Statistics of *Aulacorthum solani* (Hemiptera: Aphididae) at Six Constant Temperatures, With Recommendations on the Application of Temperature-Dependent Development Models.. *Environmental Entomology*, 39 (5), 1631-1642.
 57. Lee, D.-H., Nyrop, J. P., Sanderson, J. P. (2010). Effect of host experience of the greenhouse whitefly, *Trialeurodes vaporariorum*, on trap cropping effectiveness. *Entomologia Experimentalis et Applicata*, 137, 193-203.
 56. Braun, S. E., Castrillo, L. A., Sanderson, J. P., Daughtrey, M. L., Wraight, S. P. (2010). Transstadial transmission of *Pythium* in *Bradysia impatiens* and lack of larval vectoring capacity. *Phytopathology*, 100, 1307-1313.
 55. Lee, D.-H., Sanderson, J. P., Nyrop, J. P. (2009). Attraction of *Trialeurodes vaporariorum* and *Bemisia argentifolii* to eggplant, and its potential as a trap crop for whitefly management on greenhouse poinsettia. *Entomologia Experimentalis et Applicata*, 133, 105–116.
 54. Braun, S. E., Sanderson, J. P., Nelson, E. B., Daughtrey, M. L., Wraight, S. P. (2009). Fungus gnat feeding and mechanical wounding inhibit *Pythium aphanidermatum* infection of geranium seedlings.. *Phytopathology*, 99, 1421-1428.
 53. Van Driesche, R. G., Lyon, S., Sanderson, J. P., Bennett, K. C., Stanek, E. J., Ruitao, Z. (2008). Greenhouse trials of *Aphidius colemani* (Hymenoptera: Braconidae) banker plants for control of aphids (Hemiptera: Aphididae) in greenhouse spring floral crops.. *International Organisation for Biological Control*, 91 (4), 583-591.
 52. Castrillo, L. A., Ugine, T. A., Filotas, M. J., Sanderson, J. P., Vandenberg, J. D., Wraight, S. P. (2008). Molecular characterization and comparative virulence of *Beauveria bassiana* isolates (Ascomycota: Hypocreales) associated with the greenhouse shore fly, *Scatella*

- tenuicosta (Diptera: Ephydriidae). International Organisation for Biological Control, 45 (1), 154-162.
51. Castrillo, L. A., Ugine, T. A., Filotas, M. J., Sanderson, J. P., Vandenberg, J. D., Wraight, S. P. (2008). Molecular characterization and comparative virulence of *Beauveria bassiana* isolates (Ascomycota: Hypocreales) associated with the greenhouse shore fly, *Scatella tenuicosta* (Diptera: Ephydriidae). *Biological Control*, 45, 154-162.
 50. Ugine, T. A., Wraight, S. P., Sanderson, J. P. (2007). A tritrophic effect of host plant on susceptibility of the western flower thrips to the entomopathogenic fungus *Beauveria bassiana*. *Journal of Invertebrate Pathology*, 96, 162-172.
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