

2016 Curriculum Vitae



NAME: Arthur M. Agnello
DEPARTMENT/UNIT: Entomology
TITLE: Professor
CAMPUS ADDRESS: 314 Barton Lab, NYSAES, Geneva
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WEB PAGE: <http://entomology.cals.cornell.edu/people/arthur-agnello>

BACKGROUND

EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1985	Ph.D., Entomology	North Carolina State University, Raleigh, NC
1979	MS, Entomology	University of Florida, Gainesville, FL
1974	B.A., Biological Sciences	Cornell University

ACADEMIC RANK

Professor: 2002 to present, Cornell University

PRIMARY DEPARTMENTAL/UNIT PROGRAM AREA

Extension Fruit Entomology, 70% Extension and 30% research

AREAS OF EXPERTISE

Tree fruit IPM, Pheromone disruption, Pesticide application technology,
Sampling/monitoring.

PROFESSIONAL EXPERIENCE

<u>Year</u>	<u>Experience</u>
2002-Present	Cornell University, Professor of Entomology
1992-2002	Cornell University, Associate Professor of Entomology
1986-1992	Cornell University, Assistant Professor of Entomology

HONORS AND AWARDS (all)

CALS Outstanding Accomplishments in Extension/Outreach, Cornell College of Agriculture and Life Sciences. (2011)

Blue Ribbon Award, American Society of Agricultural and Biological Engineers Educational Aids Competition, Manuals and Workbooks Category. (2007)

Outstanding Service to Entomological Society of America, Eastern Branch President. (2006)
Excellence in IPM Award, New York State IPM Program. (2003)
Entomological Society of America - Eastern Branch Nominee, Distinguished Achievement Award in Extension. (2002)
George A. Goodling Memorial Lecture, 137th Annual Meeting of the Pennsylvania State Horticultural Association. (1996)
International Honor Award, Foreign Agricultural Service Recognition Program, USDA. (1996)

REPRESENTATIVE ACADEMIC RESPONSIBILITIES **CONTRACTS and GRANT SUPPORT**

- COX, K. D. (KP), AGNELLO, A. M. (KP), BRETH, D. I. (PI), 75355, "AMBROSIA BEETLE, BLACK STEM BORER, CONTROL IN APPLE NURSERIES", CALS - College Of Ag. & Life Sciences, CALS CCE LOF, NY FARM VIABILITY INST, NY FARM VIABILITY INST, OAR 15 021, Non-Profit Organization, Award, Award Signed By All Parties, \$74,245.00, Public Service & Extension, Contract, (osp: June 27, 2016, start: April 1, 2015, end: March 31, 2017).
- AGNELLO, A. M. (PI), 79865, "SPONSORED PRODUCT TESTING AGREEMENT", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MBI, MBI, Corporation, Award, Award Signed By Cornell, \$8,000.00, Organized Research, Contract, (osp: June 27, 2016, start: April 15, 2016, end: October 1, 2016).
- JENTSCH, P. (CO), LANDERS, A. (CO), AGNELLO, A. M. (CO), CARROLL, J. E. (CO), PRITTS, M. P. (CO), LOEB, G. M. (PI), 76789, "BIOLOGY & MANAGEMENT OF SPOTTED WING DROSOPHILA AND OTHER PRODUCTION PRACTICES IN NEW YORK BERRY CROPS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, FOC 15 002, Non-Profit Organization, Award, Award Signed By All Parties, \$290,000.00, Organized Research, Contract, (osp: June 27, 2016, start: January 1, 2015, end: June 30, 2016).
- AGNELLO, A. M. (CO), CARROLL, J. E. (PI), 77122, "2015 NEW YORK STATE ORCHARD COOPERATIVE AGRICULTURAL PEST SURVEY", CALS - College Of Ag. & Life Sciences, CALS IPM Uncategorized, NYS, NYS (AGMRKT), AGM01-4271, New York State, Award, Award Signed By All Parties, \$45,000.00, Public Service & Extension, Contract, (osp: June 27, 2016, start: June 24, 2015, end: June 14, 2016).
- AGNELLO, A. M. (PI), 78235, "DOW AGROSCIENCES PRODUCT TESTING PROTOCOL FOR APPLE INSECT MANAGEMENT", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, DOW AGRO, DOW AGRO, Corporation, Award, Award Signed By All Parties, \$2,500.00, Operation &

Maintenance, Contract, (osp: June 27, 2016, start: March 1, 2015, end: April 1, 2016).

MANSFIELD, A. K. (KP), PADILLA-ZAKOUR, O. I. (KP), LORDAN SANAHUJA, J. L. (KP), COX, K. D. (KP), MIRANDA SAZO, M. R. (KP), JENTSCH, P. (KP), BROWN, S. K. (PI), LANDERS, A. (KP), AGNELLO, A. M. (KP), CARROLL, J. E. (KP), BRETH, D. I. (KP), ROBINSON, T. L. (KP), BEKOSCKE, K. A. (KP), CHENG, L. (KP), WATKINS, C. B. (KP), GERLING, C. J. (KP), 76683, "2015-2016 APPLE RESEARCH & DEVELOPMENT PROGRAM (ARDP)", CALS - College Of Ag. & Life Sciences, CALS Geneva AES Sponsored Awards, NYS, NYS (AGMRKT), C200839, New York State, Award, Award Pending Post-Award Activity, \$445,183.00, Organized Research, Contract, (osp: June 27, 2016, start: April 1, 2015, end: March 31, 2016).

AGNELLO, A. M. (PI), 78553, "PRODUCT TESTING AGREEMENT", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, VALENT U.S.A., VALENT U.S.A., Corporation, Award, Award Signed By All Parties, \$3,500.00, Organized Research, Contract, (osp: June 27, 2016, start: April 1, 2015, end: March 31, 2016).

COX, K. D. (CO), AGNELLO, A. M. (PI), ROBINSON, T. L. (CO), 70631, "AN INSECT, DISEASE AND WEED MANAGEMENT PROGRAM FOR NEW YORK ORGANIC APPLES", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NYS, NYS (AGMRKT), C200807, New York State, Award, Award Closed, \$56,055.00, Organized Research, Contract, (osp: June 27, 2016, start: October 1, 2013, end: September 30, 2015).

LAKSO, A. N. (KP), KAHLKE, C. J. (KP), ROSENBERGER, D. A. (KP), KAIN, D. P. (KP), COX, K. D. (KP), IUNGERMAN, K. A. (KP), MALONEY, K. E. (KP), MIRANDA SAZO, M. R. (KP), JENTSCH, P. (KP), BROWN, S. K. (KP), DEMARREE, A. M. (KP), LANDERS, A. (KP), AGNELLO, A. M. (KP), GOTHAM, E. L. (KP), DOMINGUEZ, L. I. (KP), BURR, T. J. (PI), BRETH, D. I. (KP), ALDWINCKLE, H. S. (KP), FARGIONE, M. J. (KP), HOYING, S. A. (KP), ROBINSON, T. L. (KP), CHENG, L. (KP), WATKINS, C. B. (KP), 67561, "2012-2013 APPLE RESEARCH & DEVELOPMENT PROGRAM (ARDP)", CALS - College Of Ag. & Life Sciences, CALS Geneva AES Sponsored Awards, NYS, NYS (AGMRKT), C200709, New York State, Award, Award Closed, \$347,788.00, Organized Research, Contract, (osp: June 27, 2016, sent: April 5, 2012, start: April 1, 2012, end: March 31, 2014).

KOPLINKA-LOEHR, C. A. (CO), MCDERMOTT, L. G. (KP), JENTSCH, P. (KP), AGNELLO, A. M. (PI), BORNT, C. D. (KP), STEWART, C. L. (KP), YOUNG, S. L. (CO), 64093, "BIOLOGY, ECOLOGY AND MANAGEMENT OF BROWN MARMORATED STINK BUG IN ORCHARD CROPS, SMALL FRUIT, GRAPES, VEGETABLES AND ORNAMENTALS: ATCA", CALS - College Of

Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (ARS-AFRS), 59-1931-2-230, Federal Government, Award, Award Signed By All Parties, \$833,009.00, Organized Research, Coop, (osp: June 27, 2016, start: September 1, 2011, end: August 31, 2016).

WICKINGS, K. G. (KP), FUCHS, M. (KP), NAULT, B. A. (CO), REISCH, B. I. (KP), GADOURY, D. M. (KP), COX, K. D. (KP), PETHYBRIDGE, S. J. (KP), BROWN, S. K. (KP), LANDERS, A. (KP), AGNELLO, A. M. (KP), XU, K. (KP), BURR, T. J. (KP), LOEB, G. M. (KP), GRIFFITHS, P. (KP), SMART, L. B. (CO), SMART, C. D. (PI), 76783, "SUMMER RESEARCH AND EXTENSION INTERNSHIPS FOR UNDERGRADUATES AT CORNELL UNIVERSITY'S NEW YORK STATE AGRICULTURAL EXPERIMENT STATION", CALS - College Of Ag. & Life Sciences, CALS Plant Pathology - Geneva, USDA, USDA (USDA-NIFA), 2016-67032-25009, Federal Government, Award, Award Signed By All Parties, \$266,895.00, Organized Research, Grant, (osp: June 27, 2016, start: March 1, 2016, end: February 28, 2019).

SHIELDS, E. J. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (PI), 78495, "OPTIMIZING USE OF NATIVE PERSISTENT NEMATODES FOR BIOLOGICAL CONTROL OF PLUM CURCULIO IN ORGANIC AND CONVENTIONAL APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, FVI 16 005, Non-Profit Organization, Award, Award Signed By All Parties, \$101,152.00, Organized Research, Grant, (osp: June 27, 2016, start: April 1, 2016, end: March 31, 2018).

POVEDA, K. (PI), WHITEHEAD, S. (FE), AGNELLO, A. M. (KP), 76022, "CHEMICAL MECHANISMS OF INSECT RESISTANCE IN APPLE FRUITS", CALS - College Of Ag. & Life Sciences, CALS ENT-IT Uncategorized, USDA, USDA (USDA-NIFA), 2016-67012-24704, Federal Government, Award, Award Signed By All Parties, \$150,000.00, Organized Research, Grant, (osp: June 27, 2016, start: December 15, 2015, end: December 14, 2017).

WALLIS, A. E. (PI), AGNELLO, A. M. (CO), 78251, "IDENTIFICATION AND GROWER EDUCATION OF KEY PESTS IN APPLE ORCHARDS IN NORTHERN NEW YORK", CALS - College Of Ag. & Life Sciences, CALS CCE ENYCHP, CCEJEFF, CCEJEFF, 2016-020C, Other State(Non-NY)/Local Govt, Award, Award Awaiting Feedback From, \$14,518.00, Public Service & Extension, Grant, (osp: June 27, 2016, start: January 1, 2016, end: March 31, 2017).

COX, K. D. (CO), DEMARREE, A. M. (CO), LANDERS, A. (CO), AGNELLO, A. M. (PI), 70673, "DEVELOPMENT AND OPTIMIZATION OF SOLID-SET CANOPY DELIVERY SYSTEMS FOR RESOURCE EFFICIENT, ECOLOGICALLY SUSTAINABLE APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2013-

34103-21470, Federal Government, Award, Award Closed, \$30,000.00, Organized Research, Grant, (osp: June 27, 2016, start: September 1, 2013, end: August 31, 2014).

COX, K. D. (CO), DEMARREE, A. M. (CO), LANDERS, A. (CO), AGNELLO, A. M. (PI), 71624, "DEVELOPMENT AND OPTIMIZATION OF SOLID-SET CANOPY DELIVERY SYSTEMS FOR RESOURCE EFFICIENT, ECOLOGICALLY SUSTAINABLE APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2013-41530-21471, Federal Government, Award, Award Closed, \$30,000.00, Organized Research, Grant, (osp: June 27, 2016, start: September 1, 2013, end: August 31, 2014).

COX, K. D. (CO), DEMARREE, A. M. (KP), LANDERS, A. (CO), AGNELLO, A. M. (PI), 64065, "DEVELOPMENT AND OPTIMIZATION OF SOLID-SET CANOPY DELIVERY SYSTEMS FOR RESOURCE EFFICIENT, ECOLOGICALLY SUSTAINABLE APPLE AND CHERRY PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MICHIGAN ST U, MICHIGAN ST U, RC100858C, University, Award, Award Closed, \$130,570.00, Organized Research, Grant, (osp: June 27, 2016, sent: January 20, 2011, start: September 1, 2011, end: July 31, 2014).

MCDERMOTT, L. G. (KP), LANDERS, A. (CO), AGNELLO, A. M. (CO), PRITTS, M. P. (CO), LOEB, G. M. (PI), WEBER, C. (KP), 70114, "TESTING FIXED SPRAYER SYSTEMS TO MANAGE SPOTTED WING DROSOPHILA IN HIGH TUNNEL SMALL FRUIT PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, FOC 11 003, Non-Profit Organization, Award, Award Closed, \$81,579.00, Organized Research, Grant, (osp: June 27, 2016, start: April 1, 2013, end: March 31, 2014).

CURTIS, P. D. (CO), AGNELLO, A. M. (PI), HOFFMANN, M. P. (CO), 61677, "NOVEL BARRIER AND REPELLENT TECHNOLOGIES COMBINED WITH MATING DISRUPTION TO PREVENT BORER AND RODENT DAMAGE TO APPLE PLANTINGS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2010-34381-21306, Federal Government, Award, Award Closed, \$44,656.00, Organized Research, Grant, (osp: June 27, 2016, start: September 1, 2010, end: August 31, 2012).

ROSENBERGER, D. A. (KP), COX, K. D. (CO), AGNELLO, A. M. (CO), DEGAETANO, A. T. (KP), REISSIG, W. H. (PI), SCHERER, C. W. (KP), WATKINS, C. B. (KP), 61246, "DEVELOPMENT AND IMPLEMENTATION OF A NATIONAL WEB-BASED DECISION SUPPORT SYSTEM FOR APPLE IPM", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2010-51181-21163, Federal Government, Award,

Award Closed, \$35,266.00, Organized Research, Grant, (osp: June 27, 2016, start: August 1, 2010, end: January 31, 2012).

DEMARREE, A. M. (KP), AGNELLO, A. M. (KP), CARROLL, J. E. (KP), BRETH, D. I. (PI), 61115, "EVALUATING LONG TERM RISKS/BENEFITS OF AREA WIDE MATING DISRUPTION OF CODLING MOTH IN NY", CALS - College Of Ag. & Life Sciences, CALS CCE General Area Team Operations, U OF DELAWARE, U OF DELAWARE, 22782, University, Award, Award Closed, \$53,762.00, Public Service & Extension, Grant, (osp: June 27, 2016, start: July 1, 2010, end: December 31, 2011).

SHIELDS, E. J. (CO), LORDAN SANAHUJA, J. L. (KP), COX, K. D. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (PI), RICKARD, B. J. (CO), FRANCESCATTO, P. (KP), ROBINSON, T. L. (CO), 76709, "DEVELOPMENT AND EXTENSION OF IMPROVED ORGANIC APPLE PRODUCTION TECHNOLOGY FOR THE EASTERN USA", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2015-07449, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$933,725.00, Organized Research, (osp: June 27, 2016, start: January 1, 2016, end: December 31, 2019).

SHIELDS, E. J. (CO), AGNELLO, A. M. (PI), 77171, "ECOLOGICALLY-BASED MANAGEMENT STRATEGIES FOR TEMPERATEWEEVIL PESTS OF FRUIT & NUT CROPS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, RUTGERS, RUTGERS, University, Proposal, Proposal Not Funded By Sponsor, \$253,720.00, Organized Research, (osp: June 27, 2016, start: September 1, 2015, end: August 31, 2019).

SHIELDS, E. J. (CO), COX, K. D. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (CO), ROBINSON, T. L. (PI), CHENG, L. (CO), 73602, "DEVELOPMENT AND EXTENSION OF IMPROVED ORGANIC APPLE PRODUCTION TECHNOLOGY FOR THE EASTERN USA", CALS - College Of Ag. & Life Sciences, CALS HORT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2014-05395, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$531,818.00, Organized Research, (osp: June 27, 2016, start: January 1, 2015, end: December 31, 2018).

AGNELLO, A. M. (PI), 76460, "IMPLEMENTING INNOVATIVE STRATEGIES FOR MANAGING INVASIVE AMBROSIA BEETLES IN TREE CROPS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (ARS), Federal Government, Proposal, Proposal Withdrawn By Cornell, \$86,648.00, Organized Research, (osp: June 27, 2016, start: September 1, 2015, end: August 31, 2018).

COX, K. D. (CO), LANDERS, A. (CO), AGNELLO, A. M. (PI), 73868, "SOLID SET CANOPY DELIVERY SYSTEMS: AN EFFICIENT, SUSTAINABLE AND

SAFER SPRAY TECHNOLOGY FOR TREE FRUIT", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MICHIGAN ST U, MICHIGAN ST U, University, Proposal, Proposal Not Funded By Sponsor, \$294,392.00, Organized Research, (osp: June 27, 2016, start: September 1, 2014, end: August 31, 2018).

SHIELDS, E. J. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (PI), 77221, "OPTIMIZING USE OF NATIVE PERSISTENT NEMATODES FOR BIOLOGICAL CONTROL OF PLUM CURCULIO IN ORGANIC APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, SCG 15 005, Non-Profit Organization, Proposal, Proposal Not Funded By Sponsor, \$74,222.00, Organized Research, (osp: June 27, 2016, start: January 1, 2016, end: December 31, 2017).

WALLIS, A. E. (KP), KAHLKE, C. J. (KP), ROSENBERGER, D. A. (KP), REIG CORDOBA, G. R. (KP), LORDAN SANAHUJA, J. L. (KP), MALONEY, K. E. (KP), MIRANDA SAZO, M. R. (KP), JENTSCH, P. (KP), HERZEELLE, P. (KP), BROWN, S. K. (PI), AGNELLO, A. M. (KP), BRETH, D. I. (KP), WELLS, M. A. (KP), FRAATZ, M. R. (KP), FRANCESCATTO, P. (KP), ROBINSON, T. L. (KP), CHENG, L. (KP), WATKINS, C. B. (KP), 79914, "2016-2017 APPLE RESEARCH & DEVELOPMENT PROGRAM (ARDP GROWER FUNDS)", CALS - College Of Ag. & Life Sciences, CALS Geneva AES Sponsored Awards, NYS, NYS (AGMRKT), New York State, Proposal, Proposal Under Review By Sponsor, \$375,780.00, Organized Research, (osp: June 27, 2016, start: April 1, 2016, end: March 31, 2017).

WALLIS, A. E. (KP), FUCHS, M. (KP), KAHLKE, C. J. (KP), REIG CORDOBA, G. R. (KP), LORDAN SANAHUJA, J. L. (KP), EGGLESTON, K. L. (KP), COX, K. D. (KP), MIRANDA SAZO, M. R. (KP), JENTSCH, P. (KP), ACIMOVIC, S. G. (KP), BROWN, S. K. (PI), AGNELLO, A. M. (KP), DEGAETANO, A. T. (KP), CARROLL, J. E. (KP), AYER, K. M. (KP), BRETH, D. I. (KP), LOEB, G. M. (KP), PECK, G. M. (KP), BOUCHER, M. T. (KP), WELLS, M. A. (KP), FRANCESCATTO, P. (KP), LIU, R.-H. (KP), ROBINSON, T. L. (KP), LAMPASONA, T. P. (KP), IFFT, J. E. (KP), CHENG, L. (KP), TEE, E. M. (KP), WATKINS, C. B. (KP), 80325, "2016-17 APPLE RESEARCH & DEVELOPMENT PROGRAM (ARDP ADDITIONAL STATE FUNDING)", CALS - College Of Ag. & Life Sciences, CALS Geneva AES Sponsored Awards, NYS, NYS (AGMRKT), New York State, Proposal, Proposal Under Review By Sponsor, \$500,000.00, Organized Research, (osp: June 27, 2016, start: April 1, 2016, end: March 31, 2017).

SHIELDS, E. J. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (PI), 75356, "OPTIMIZING USE OF NATIVE PERSISTENT NEMATODES FOR BIOLOGICAL CONTROL OF PLUM CURCULIO IN ORGANIC APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, OAR 15 006, Non-Profit Organization, Proposal, Proposal Not Funded By Sponsor,

\$94,801.00, Organized Research, (osp: June 27, 2016, start: April 1, 2015, end: March 31, 2017).

MCDERMOTT, L. G. (KP), LANDERS, A. (CO), AGNELLO, A. M. (PI), PRITTS, M. P. (KP), LOEB, G. M. (CO), WEBER, C. (KP), 73469, "IMPROVING A FIXED SPRAYING SYSTEM FOR OPTIMIZED MANAGEMENT OF SPOTTED WING DROSOPHILA IN HIGH TUNNEL SMALL FRUIT PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NY FARM VIABILITY INST, NY FARM VIABILITY INST, Non-Profit Organization, Proposal, Proposal Not Funded By Sponsor, \$72,045.00, Organized Research,. (osp: June 27, 2016, start: March 1, 2015, end: February 28, 2017).

SHIELDS, E. J. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (PI), 73594, "OPTIMIZING USE OF ENTOMOPATHOGENIC NEMATODES FOR BIOLOGICAL CONTROL OF PLUM CURCULIO IN ORGANIC APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, NYS, NYS (AGMRKT), New York State, Proposal, Proposal Not Funded By Sponsor, \$84,041.00, Organized Research, (osp: June 27, 2016, start: March 1, 2015, end: February 28, 2017).

JENTSCH, P. (CO), AGNELLO, A. M. (PI), KOPLINKA-LOEHR, C. A. (CO), 73858, "BIOLOGY, ECOLOGY & MANAGEMENT OF BROWN MARMORATED STINK BUG IN ORCHARD CROPS, SMALL FRUIT, GRAPES, VEGETABLES & ORNAMENTALS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (ARS-AFRS), Federal Government, Proposal, Proposal Funded Under Different OSP Number, \$399,615.00, Organized Research, (osp: June 27, 2016, start: September 1, 2014, end: August 31, 2016).

COX, K. D. (KP), MIRANDA SAZO, M. R. (KP), AGNELLO, A. M. (KP), ROBINSON, T. L. (PI), 68499, "WEED, INSECT AND DISEASE MANAGEMENT PROGRAMS FOR HIGH-DENSITY, DISEASE RESISTANT ORGANIC APPLE ORCHARDS IN NEW YORK", CALS - College Of Ag. & Life Sciences, CALS HORT-GN Uncategorized, U OF VERMONT, U OF VERMONT, University, Proposal, Pre-Proposal Not Accepted, \$107,250.00, Organized Research, (osp: June 27, 2016, start: January 1, 2013, end: December 31, 2015).

LAKSO, A. N. (KP), COX, K. D. (KP), JENTSCH, P. (KP), AGNELLO, A. M. (CO), DEGAETANO, A. T. (KP), ROBINSON, T. L. (KP), REISSIG, W. H. (PI), SCHERER, C. W. (KP), WATKINS, C. B. (KP), 67024, "DEVELOPMENT AND IMPLEMENTATION OF A WEB-BASED IPM DECISION SUPPORT SYSTEM FOR EASTERN APPLE PRODUCTION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), 2012-01574, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$3,499,376.00, Organized Research, (osp: June 27, 2016, sent: January 31, 2012, start: September 1, 2012, end: August 31, 2015).

AGNELLO, A. M. (PI), 72231, "CONTINUED SUPPORT OF NORTHEAST TREE FRUIT IPM WORKING GROUP", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), Federal Government, Proposal, Proposal Not Funded By Sponsor, \$9,571.00, Organized Research, (osp: June 27, 2016, start: April 1, 2014, end: March 31, 2015).

AGNELLO, A. M. (PI), 58899, "DEVELOPMENT AND DELIVERY OF RESOURCE-EFFICIENT, ECOLOGICALLY SUSTAINABLE FRUIT PRODUCTION SYSTEMS FOR THE GREAT LAKES REGION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MICHIGAN ST U, MICHIGAN ST U, University, Proposal, Proposal Not Funded By Sponsor, \$184,000.00, Organized Research, (osp: June 27, 2016, sent: March 27, 2009, start: September 30, 2009, end: August 31, 2014).

LANDERS, A. (CO), AGNELLO, A. M. (PI), 57333, "DEVELOPMENT AND DELIVERY OF RESOURCE-EFFICIENT, ECOLOGICALLY SUSTAINABLE FRUIT PRODUCTION SYSTEMS FOR THE GREAT LAKES REGION", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MICHIGAN ST U, MICHIGAN ST U, University, Proposal, Proposal Not Funded By Sponsor, \$173,073.00, Organized Research, (osp: June 27, 2016, sent: July 30, 2008, start: September 30, 2008, end: September 29, 2013).

SHIELDS, E. J. (PI), AGNELLO, A. M. (CO), REISSIG, W. H. (CO), 64470, "BIOLOGICAL CONTROL OF PLUM CURCULIO USING INOCULATIVE RELEASES OF PERSISTENT ENTOMOPATHOGENIC NEMATODES", CALS - College Of Ag. & Life Sciences, CALS ENT-IT Uncategorized, USDA, USDA (USDA-NIFA), 2011-02131, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$212,277.00, Organized Research, (osp: June 27, 2016, sent: March 1, 2011, start: September 1, 2011, end: August 31, 2013).

AGNELLO, A. M. (PI), 66588, "CONTINUED SUPPORT OF NORTHEAST TREE FRUIT IPM WORKING GROUP", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, PENN STATE, PENN STATE, University, Proposal, \$8,250.00, Organized Research, (osp: June 27, 2016, sent: December 12, 2011, start: April 1, 2012, end: March 31, 2013).

AGNELLO, A. M. (PI), 61682, "DELIVERY OF KEY PLUM CURCULIO PHENOLOGY AND INSECTICIDE EFFICACY INFORMATION TO FACILITATE FQPA-FORCED CHANGES IN THE TREE FRUIT INDUSTRIES EAST OF THE ROCKY MOUNTAINS", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, MICHIGAN ST U, MICHIGAN ST U, University, Proposal, Proposal Not Funded By Sponsor, \$17,946.00, Organized Research. (osp: June 27, 2016, sent: February 24, 2010, start: October 1, 2010, end: September 30, 2012).

AGNELLO, A. M. (PI), 63725, "ENHANCEMENT OF THE NORTHEAST TREE FRUIT IPM WORKING GROUP", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, USDA, USDA (USDA-NIFA), Federal Government, Proposal, Proposal Funded Under Different OSP Number, \$11,528.00, Organized Research, (osp: June 27, 2016, sent: November 22, 2010, start: April 1, 2011, end: March 31, 2012).

AGNELLO, A. M. (PI), 61086, "NORTHEAST TREE FRUIT IPM WORKING GROUP", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, PENN STATE, PENN STATE, University, Proposal, Proposal Funded Under Different OSP Number, \$20,000.00, Organized Research, (osp: June 27, 2016, sent: May 1, 2010, start: April 1, 2010, end: March 31, 2012).

COX, K. D. (CO), JENTSCH, P. (CO), AGNELLO, A. M. (CO), CARROLL, J. E. (CO), REISSIG, W. H. (PI), 59008, "DEVELOPMENT OF WEB-BASED NEW YORK AND NEW ENGLAND REGIONAL TREE FRUIT PEST MANAGEMENT GUIDELINES", CALS - College Of Ag. & Life Sciences, CALS ENT-GN Uncategorized, EPA, EPA, GRANT10248840, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$249,439.00, Organized Research, (osp: June 27, 2016, sent: April 13, 2009, start: September 1, 2009, end: August 31, 2011).

TAYLOR, A. G. (CO), CURTIS, P. D. (PI), AGNELLO, A. M. (CO), FREY, M. W. (CO), 57866, "NOVEL REPELLENTS AND BARRIERS FOR IMPROVED MANAGEMENT OF VERTEBRATE PESTS AND WOOD-BORING INSECTS IN URBAN AND AGRICULTURAL SETTINGS", CALS - College Of Ag. & Life Sciences, CALS NR Uncategorized, USDA, USDA (USDA-NIFA), GRANT00538014, Federal Government, Proposal, Proposal Not Funded By Sponsor, \$179,675.00, Organized Research, (osp: June 27, 2016, sent: November 12, 2008, start: May 1, 2009, end: April 30, 2011).

LAKSO, A. N. (KP), ROSENBERGER, D. A. (KP), BROWN, S. K. (KP), LANDERS, A. (KP), AGNELLO, A. M. (KP), XU, K. (KP), BURR, T. J. (PI), ALDWINCKLE, H. S. (KP), HOYING, S. A. (KP), ROBINSON, T. L. (KP), CHENG, L. (KP), WATKINS, C. B. (KP), 61897, "2010-2011 APPLE RESEARCH & DEVELOPMENT PROGRAM (ARDP)", CALS - College Of Ag. & Life Sciences, CALS Geneva AES Sponsored Awards, NYS, NYS (AGMRKT), New York State, Proposal, Proposal Funded Under Different OSP Number, \$208,784.00, Organized Research, (osp: June 27, 2016, sent: March 30, 2010, start: April 1, 2010, end: March 31, 2011).

TEACHING AND ADVISING RESPONSIBILITIES

Graduate Courses (past 10 years)

ENTOM 8900, Master's Level Thesis Research, 5 courses.

GRADUATE FIELD MEMBERSHIPS

Field of Entomology

Undergraduate Advising

Research w/o Credit - Research Honors

Summer, 2012--Tussey, Dylan
Summer, 2013--Dodge, Christine
Summer, 2014--Pennock, Emily
Summer, 2015--Davis, Abigail
Summer, 2016--Neal, Joshua

Graduate Advising

Masters Thesis Special Committee Chair

Lessord, Tessa. (Fall 2014 - Spring 2016).
Title of Student's Work: Factors impacting management of plum curculio by persistent entomopathogenic nematodes

Turnipseed, Rakim K. (Fall 2011 - Spring 2012).

Masters Thesis Special Committee Member

Osborne, Jason L. (Spring 2007).

PhD Special Committee Member

Peck, Gregory. (Summer 2004 - Fall 2008).
Title of Student's Work: Integrated and Organic Production of "Liberty"
Apple: Two Agroecosystems from the Ground Up

Professional Advising

Other. (Summer 2014 - Present). Advised: David B. Combs
Other. (Summer 1992 - Fall 2015). Advised: David P. Kain
Other. (Fall 2013). Advised: Jayson Harper
Other, IASMA Research Centre, San Michele, Italy. (Spring 2010 - Winter 2010).
Advised: Claudio Ioriatti
Other. (2005 - 2006). Advised: Cynthia L. Hsu

EXTENSION/OUTREACH RESPONSIBILITIES:

Extension Publications and Presentations (last five years)

	2015	2014	2013	2012	2011	Median
# Extension Publications	38	29	23	32	30	32
# Extension Presentations	11	11	14	16	17	14

Total contact hours	901.4	551	467.9	498	523.5	523.5
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Representative extension publications:

Agnello, A. M. (ed.). 2002-present. Scaffolds Fruit Journal: Update on Pest Management and Crop Development. <http://www.scaffolds.entomology.cornell.edu/>

Agnello, A. M., R. Gardner, M. Helms, A. Landers, K. Cox, J. Carroll, T. Robinson, D. Breth, D. Kain, R. Bellinder P. D. Curtis, L. Cheng. 2016. 2016 Pest Management Guidelines for Commercial Tree-Fruit Production. Cornell Coop. Extension, Ithaca, N.Y. 290 pp. <http://ipmguidelines.org>

Agnello, A., D. Breth, E. Tee, K. Cox, and H.R. Warren. 2015. Ambrosia beetle – an emergent apple pest. NY Fruit Quarterly. 23(1): 25-28. <http://www.nyshs.org/fq.php>

Bergh, C., A. Acebes-Doria, T. Leskey, R. Morrison, B. Short, G. Krawczyk, J. Walgenbach, **A. Agnello**, P. Jentsch, G. Hamilton, A. Nielsen, B. Blaauw, V. Walton, N. Wiman, C. Hedstrom, P. Shearer, and B. Beers. 2016. Integrated Pest Management for Brown Marmorated Stink Bug in Orchard Crops. 4 pp. <<http://www.stopbmsb.org/orchard-crops>>

Sutton, T. B., Aldwinckle, H. S., **Agnello, A. M.**, and Walgenbach, J. F., eds. 2013. Compendium of Apple and Pear Diseases and Pests, 2nd ed. American Phytopathological Society, St. Paul, MN. 224 pp. <http://www.apsnet.org/apsstore/shopapspress/Pages/44303.aspx>

Representative extension presentations:

February 2015; Research update for woolly apple aphid and scale control. Lake Ontario Winter Fruit Schools, Lockport and Newark, NY. Audience: 83 / 149 (30 / 25 min).

June 2015; Update on organic apple pest management trials. NOFA-NY Field Day: Organic Apple Production - Managing Productivity, Insects, Disease and Weeds, Geneva, NY. Audience: 98. (45 min).

January 2014; A fixed-spray system for SWD management in high tunnel raspberries. Empire State Producers Expo, Syracuse, NY. Audience: 50 (30 min).

November 2015; Advanced vs. Minimal Insect Management Programs for Organic Apple Production in NY. 2015 Great Lakes Fruit Workers Conference, Geneva, NY. (20 min; Audience: 50)

March 2014; Update on San Jose scale biology and control. Agr. Assistance Winter Fruitgrower Meeting, Lyons, NY. Audience: 160 (40 min).

Internet Sites:

Scaffolds Fruit Journal. Weekly newsletter on tree fruit crop and pest development, local observations, and management recommendations; 25 issues posted weekly from March to September. <http://www.nysaes.cornell.edu/ent/scaffolds>.

REPRESENTATIVE PROFESSIONAL ACTIVITIES

Department Service

Committee Member, Entomology Executive Committee. (2014 - Present).
Committee Chair, Entomology Extension & Outreach Committee. (2010 - Present).
Committee Member, Entomology Open House Committee. (2010 - Present).
Department Extension Leader, Department Extension Leader, Entomology - Geneva.
(1986 - Present).
Committee Member, Entomology Executive Committee. (2010 - 2011).
Committee Member, Entomology Merger Committee. (2009 - 2010).

College of Agriculture & Life Sciences Service

Committee Member, Other. (2008 - Present).
Committee Member, Other. (2009 - 2010).

Public Service

Committee Member, Troop 3, BSA, Finger Lakes Council, Geneva, NY. (September
1997 - 2012).
Boy Scouts Science and Technology Camp, Ovid, NY. (2009).
Boy Scouts Science and Technology Camp, Ovid, NY. (July 2008).

PROFESSIONAL SOCIETIES

NYS Commercial Pesticide Applicator, NYS Dept of Environmental Conservation. (April 21,
2014 - April 21, 2017).
Entomological Society of America

EDITORIAL BOARDS

Editorships and Reviewer

Book

"2016 Pest Management Guidelines for Commercial Tree-Fruit Production". (2016).
"2015 Pest Management Guidelines for Commercial Tree-Fruit Production". (2015).
"2014 Pest Management Guidelines for Commercial Tree-Fruit Production". (2014).
"2013 Pest Management Guidelines for Commercial Tree-Fruit Production". (2013).
"2012 Pest Management Guidelines for Commercial Tree-Fruit Production". (2012).
"2011 Pest Management Guidelines for Commercial Tree-Fruit Production". (2011).
"Pest Management Guidelines for Commercial Tree-Fruit Production", 25 reviews.
(August 1, 2010 - November 30, 2010).
"Pest Management Guidelines for Commercial Tree-Fruit Production", 25 reviews.
(August 1, 2009 - November 30, 2009).
"Pest Management Guidelines for Commercial Tree-Fruit Production", 25 reviews.
(August 1, 2008 - November 30, 2008).

Conference

Editor, Conference Proceedings

"90th Annual Cumberland-Shenandoah Fruit Workers Conference", 40 reviews.
(December 4, 2014 - December 5, 2014).

Editor, Conference Proceedings

"84th Annual Cumberland-Shenandoah Fruit Workers Conference", 40 reviews.
(December 4, 2008 - December 5, 2008).

Grant/Proposal

External Review Panel

"USDA NERA Multistate Research Project", 1 reviews. (February 16, 2015 - Present).

External Review Panel

"Agriculture and Agri-Food Canada Research Projects", 2 reviews. (January 8, 2015 - Present).

Reviewer, Grant Proposal

"Organic Science Cluster II Peer Review Panel, Organic Agriculture Centre of Canada",
1 reviews. (March 2013 - Present).

Research Review Panel

"California Pierce's Disease Research Grants Management Program", 1 reviews.
(February 7, 2008).

Reviewer, Journal Article

"Canadian Entomol.", 1 reviews. (July 27, 2015 - Present).

"BioControl", 1 reviews. (July 23, 2015 - Present).

"Entomol. Exp. Applic.", 1 reviews. (April 27, 2015 - Present).

"Phytoprotection", 1 reviews. (April 15, 2015 - Present).

"J. Econ. Entomol.", 1 reviews. (January 19, 2015 - Present).

"J. Pest Science", 1 reviews. (March 2014 - Present).

"Great Lakes Entomologist", 1 reviews. (February 2014 - Present).

"Journal of Agricultural and Urban Entomology", 1 reviews. (December 2013 - Present).

"Entomologia Experimentalis et Applicata", 1 reviews. (April 2013 - Present).

"Journal of Economic Entomology", 1 reviews. (April 2013 - Present).

"Phytoparasitica", 1 reviews. (March 2013 - Present).

"New York Fruit Quarterly", 10 reviews. (July 1, 2015 - December 31, 2015).

"Journal of Entomological and Acarological Research", 55 reviews. (September 2012 -
September 2014).

"Environmental Entomology", 2 reviews. (July 2013 - September 2013).

"Crop Protection", 1 reviews. (June 2012).

"European Journal of Entomology", 1 reviews. (March 2012).

"Entomologica Experimentalis et Applicata", 1 reviews. (February 2012).

"Crop Protection", 2 reviews. (February 2011 - September 2011).

"Pest Management Science", 1 reviews. (April 2011).

"Journal of Economic Entomology", 6 reviews. (February 19, 2010 - December 29,
2010).

"Journal of Horticultural Science & Biotechnology", 1 reviews. (September 6, 2010).

Reviewer, Grant Proposal

"INRA VirAphid Project", 1 reviews. (May 31, 2010).
"Crop Protection", 1 reviews. (May 10, 2010).
"HortTechnology", 1 reviews. (April 19, 2010).
"Environmental Entomology", 2 reviews. (February 16, 2010 - April 19, 2010).
"Journal of Applied Entomology", 1 reviews. (March 25, 2010).
"California Pierce's Disease Research Program", 1 reviews. (March 12, 2010).
"Journal of Chemical Ecology", 1 reviews. (January 25, 2010).
"Environmental Entomology", 1 reviews. (November 11, 2009).
"Pest Management Science", 1 reviews. (October 2, 2009).
"Scaffolds", 99 reviews. (March 23, 2009 - September 8, 2009).
"Journal of Economic Entomology", 1 reviews. (July 22, 2009).
"Environmental Entomology", 1 reviews. (April 15, 2009).
"Journal of Economic Entomology", 1 reviews. (February 2, 2009).
"Scaffolds", 93 reviews. (March 24, 2008 - September 8, 2008).
"The Canadian Entomologist", 1 reviews. (June 18, 2008).
"Environmental Entomology", 1 reviews. (February 7, 2008).
"International Journal of Pest Management", 1 reviews. (February 7, 2008).

Other

Research Review Panel

"Southern Region IPM Center IPM Partnership Grants Program". (March 2011).

Research Review Panel

"USDA-ARS Peer Review Program". (2008).

Editor, Newsletter

"Cornell Coop. Ext. Tree Fruit Fact Sheet, New York State Integrated Pest Management Program, Geneva". (1991).

REPRESENTATIVE PROFESSIONAL CONTRIBUTIONS

INVITED PRESENTATIONS (Past 10 years)

TEACHING

Agnello, A. M., ENTOM 4190 – Agricultural Application of Plant Health Concepts, "Diseases and Pests of New York Crops", Invited, Cornell University, Wayne Co., NY. (July 2015).

Agnello, A. M., HORT 4450 - Orchard Management, "Insect Pest Management, conventional and organic production systems", Invited, Cornell University. (February 2015).

Agnello, A. M., Summer field course tree fruit session, "ENTOM 4190 – Agricultural Application of Plant Health Concepts: Diseases and Pests of New York Crops", Wayne Co., NY. (July 2014).

Breth, D. I. (Presenter Only), Agnello, A. M. (Presenter Only), 2010 Lake Ontario Winter Fruit School, "A panel: Where does mating disruption work?", CCE-LOF, Newark, NY. (January 20, 2010).

- Breth, D. I. (Presenter Only), Agnello, A. M. (Presenter Only), 2010 Lake Ontario Winter Fruit School, "A Panel: Where does mating disruption work?", CCE-LOF, Albion, NY. (January 19, 2010).
- Agnello, A. M., Reissig, W. H., ENTOM 444 - Integrated Pest Management, "EcoApples, a certified IPM labeling program in NY and New England", Cornell University, Ithaca, NY. (November 23, 2009).
- Agnello, A. M., Elements of orchard IPM, Hort 200 – Pest Management, Finger Lakes Community College, Finger Lakes Community College (given in Geneva). (April 22, 2009).
- Agnello, A. M., Ent 241, Applied Entomology, "Fruit insect pest biology and management", Cornell University, Ithaca, NY. (April 22, 2009).
- Agnello, A. M., PP/ENT 707, Diseases and Pests of New York Crops, "Summer field course tree fruit session", Wayne Co. (July 2008).
- Agnello, A. M., Ent 241, Applied Entomology, Cornell University. (April 2008).
- Agnello, A. M., Elements of orchard IPM, Hort 200 – Pest Management, Finger Lakes Community College (given in Geneva). (February 2008).

RESEARCH

- Agnello, A. M., 91st Annual Cumberland-Shenandoah Fruit Workers Conference, "Ambrosia beetle (*Xylosandrus germanus*) infestations and management trials in high-density apple orchards", Accepted, Cumberland-Shenandoah Fruit Workers, Winchester, VA. (December 2015).
- Agnello, A. M., 2015 Great Lakes Fruit Workers Conference, "Advanced vs. Minimal Insect Management Programs for Organic Apple Production in NY", Accepted, Great Lakes Fruit Workers, Geneva, NY. (2015).
- Agnello, A. M., Entomological Society of America Annual Meeting, "Ambrosia beetle (*Xylosandrus germanus*) infestations and management trials in high-density apple orchards", Accepted, Entomological Society of America, Minneapolis, MN. (November 2015).
- Agnello, A. M., New England, NY, and Canadian Fruit Pest Management Workshop, "Advanced vs. Minimal Insect Management Programs for Organic Apple Production in NY", New England, NY, and Canadian Fruit Pest Management, Burlington, VT. (October 2015).
- Agnello, A. M., IDEP Symposium: Recent outbreaks/population declines of historically important pests., "Return of San Jose scale as an emergent pest", Invited, Entomological Society of America Eastern Branch, Rehoboth, DE. (March 2015).
- Agnello, A. M., Symposium: Adoption of insect pest management strategies, "Tree fruit IPM hits and flops over the years", Invited, Entomological Society of America Eastern Branch, Rehoboth, DE. (March 2015).
- Agnello, A. M., International Fruit Tree Association 58th Annual Conference, "Living without neonics in tree fruit", Invited, International Fruit Tree Association, Halifax, Nova Scotia. (February 2015).
- Agnello, A. M., Orchard Pest & Disease Management Conference, "Fixed sprayer system for optimizing management of spotted wing *Drosophila* in high tunnel small fruit production", Accepted, Portland, Oregon. (January 2015).

- Agnello, A. M., Orchard Pest & Disease Management Conference,, "Ambrosia beetles - a new emergent pest in apple orchards", Accepted, Portland, Oregon. (January 2015).
- Agnello, A. M., 90th Annual Cumberland-Shenandoah Fruit Workers Conference, "A fixed-spray system for spotted wing Drosophila management in high tunnel raspberries", Cumberland-Shenandoah Fruit Worker, Winchester, VA. (December 2014).
- Agnello, A. M., 2014 Great Lakes Fruit Workers Conference, "A fixed-spray system for spotted wing Drosophila management in high tunnel raspberries", 2014 Great Lakes Fruit Workers, Traverse City, MI. (2014).
- Agnello, A. M., Interpoma Congress 2014 - 9th International Trade Show for the Cultivation, Storage and Marketing of Apples, "In-canopy fixed spraying system for high density apple orchards", Invited, Bolzano, Italy. (November 2014).
- Agnello, A. M., IOBC-WPRS Working Group "Integrated Plant Protection in Fruit Crops", Subgroups "Pome Fruit Arthropods" and "Stone Fruits", "Assessments of native strains of entomopathogenic nematodes for biological control of plum curculio (*Conotrachelus nenuphar*) in apples", IOBC-WPRS, Vienna, Austria. (October 2014).
- Agnello, A. M., New England, NY, and Canadian Fruit Pest Management Workshop, "A fixed-spray system for spotted wing Drosophila management in high tunnel raspberries", Burlington, VT. (October 2014).
- Agnello, A. M., IOBC Working Group "Integrated Plant Protection in Fruit Crops", Subgroup "Soft Fruits", "A fixed-spray system for spotted wing Drosophila management in high tunnel raspberries", IOBC, Vigalzano di Pergine Valsugana, Italy. (May 2014).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Notes on why you should always have your hand lens", Invited, Entomological Society of America Eastern Branch, Williamsburg, VA. (March 2014).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Practical uses of mating disruption in NY apple and peach production", Invited, Entomological Society of America Eastern Branch, Williamsburg, VA. (March 2014).
- Agnello, A. M., 140th Congress of Entomological Society of Québec, "Practical Uses of Mating Disruption in NY Apple and Peach Production.", Entomological Society of Québec, Sainte-Adèle, Canada. (November 2013).
- Agnello, A. M., Entomological Society of America Annual Meeting, "Assessments of Native Strains of Entomopathogenic Nematodes for Plum Curculio Management.", Entomological Society of America, Austin, TX USA. (November 2013).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Comparative attractiveness of a single-component isomer vs. the racemic blend of a mating pheromone in *Prionus* (Coleoptera: Cerambycidae) traps.", Entomological Society of America, Lancaster, PA USA. (March 2013).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Preliminary Assessments of Native Strains of Entomopathogenic Nematodes for Plum Curculio Management.", Entomological Society of America, Lancaster, PA USA. (March 2013).
- Agnello, A. M., Empire State Producers Expo, "Progress in the development of an in-canopy fixed spraying system for high-density apple orchards.", Syracuse, NY USA. (January 2013).
- Agnello, A. M., Orchard Pest & Disease Management Conference, "Progress in the development of an in-canopy fixed spraying system for high-density apple orchards.", Portland, OR USA. (January 10, 2013).

- Agnello, A. M., ESA 60th Annual Meeting, Entomological Society of America, Knoxville, TN. (November 4, 2012).
- Agnello, A. M., XXIV International Congress of Entomology, "Progress in the development of an in-canopy fixed spraying system for high-density apple orchards (invited talk).", Daegu, Korea. (August 21, 2012).
- Agnello, A. M., Eastern Branch 2012 Annual Meeting, "Mating Disruption plus Novel Barriers for Dogwood Borer (*Synanthedon scitula*) Control.", Entomological Society of America, Hartford, CT. (March 19, 2012).
- Agnello, A. M., 86th Annual Orchard Pest & Disease Management Conference, "Mating disruption plus novel barriers for dogwood borer control.", Portland, OR. (January 12, 2012).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Control of dogwood borer with mating disruption using an antagonistic sex pheromone", Entomological Society of America Eastern Branch, Harrisburg, PA. (March 19, 2011).
- Agnello, A. M., Vermont Tree Fruit Growers Meeting, "Apple Arthropod Management & Pesticide Update – Early Season and Apple Arthropod Management – Summer", Vermont Tree Fruit Growers, Middlebury, VT. (February 8, 2011).
- Agnello, A. M., Orchard Pest & Disease Management Conference, "Mating disruption trials for dogwood borer control", Orchard Pest & Disease Management, Portland, OR. (January 14, 2011).
- Agnello, A. M., Minnesota Apple Growers Meeting, "The Usual Suspects: Keeping up with Codling Moth", Invited, Minnesota Apple Growers, LaCrosse, WI. (January 5, 2011).
- Agnello, A. M., Minnesota Apple Growers Meeting, "Woolly Apple Aphid and Development and Validation of a Real-Time Apple IPM Decision Support Website", Invited, Minnesota Apple Growers, LaCrosse, WI. (January 5, 2011).
- Reissig, W. H., Agnello, A. M., Cumberland Shenandoah Fruit Workers Conference, "Revisiting Web-Based Apple IPM Strategies in 2010", The Mid-Atlantic Regional Fruit Loop, Winchester, VA. (December 2010).
- Reissig, W. H., Agnello, A. M., Western Orchard Pest and Disease Management Conference, "Testing Web-Based IPM Strategies in NY Apple Orchards", Tree Fruit Research and Extension Center, Portland, Oregon. (2010).
- Reissig, W. H., Agnello, A. M., Great Lakes Fruit Workers Conference, "Revisiting Web-Based Apple IPM Strategies in 2010", Michigan State University Extension, Leamington, Ontario, Canada. (November 2010).
- Reissig, W. H., Agnello, A. M., Jentsch, P. J., Carroll, J. E., Cox, K. D., 72nd Annual New England, New York and Canadian Fruit Pest Management Workshop, "New York 'Real Time' Apple IPM Website, Webinar: Wide-area Monitoring in the Northeast-What's Happening and How can you Fit in ?", Vermont. (October 2010).
- Agnello, A. M., IOBC Working Group "Integrated Protection of Fruit Crops", Joint meeting of "Pome fruit arthropods" and "Stone fruits" Sub-Groups; Workshop on Sustainable protection of fruit crops in the Mediterranean area, "Development and validation of a Real-Time Apple IPM website for New York", Vico del Gargano, Italy. (September 2010).
- Agnello, A. M., Entomological Society of America Eastern Branch Meeting, "Development and validation of a "Real-Time" Apple IPM Website in New York", Annapolis, MD. (March 2010).

- Agnello, A. M., Orchard Pest & Disease Management Conference, "Development and validation of a "Real-Time" Apple IPM Website for New York", Portland, OR. (January 2010).
- Jentsch, P. J. (Presenter Only), Agnello, A. M., Reissig, W. H., Long Island Agricultural Forum, "Using the web to expand your tree fruit pest management resources.", Cornell Cooperative Extension; Suffolk County, Riverhead, NY. (January 14, 2010).
- Reissig, W. H., Agnello, A. M., 85th Cumberland Shenandoah Fruit Workers Conference, "Testing Web-Based IPM Strategies", Winchester, VA. (October 27, 2009).
- Reissig, W. H., Agnello, A. M., Great lakes Fruit Workers Conference, "Testing Web-Based IPM Strategies", Fishkill, NY. (October 27, 2009).
- Reissig, W. H., Agnello, A. M., New England, NY, Canadian Tree Fruit Workers Workshop, "Rationale for Exploring New Web-based Apple IPM Protocols and Methodology", Burlington, VT. (October 21, 2009).
- Agnello, A. M. (Presenter & Author), Reissig, W. H. (Author Only), 71st New England, New York, Canadian Fruit Pest Management Workshop, "Development and validation of a "Real-Time" Apple IPM website for New York", New England, New York, Canadian Fruit Pest Management Group, Burlington, VT. (October 20, 2009).
- Agnello, A. M. (Presenter & Author), 71st New England, New York, Canadian Fruit Pest Management Workshop, "Dogwood borer mating disruption in apples using lesser peachtree borer dispensers", New England, New York, Canadian Fruit Pest Management Group, Burlington, VT. (October 20, 2009).
- Agnello, A. M. (Organizer), Entomological Society of America Eastern Branch Meeting, "A fixed spraying system for applying pesticides to high-density apple plantings", Entomological Society of America Eastern Branch, Harrisburg, PA. (March 22, 2009).
- Reissig, W. H., Agnello, A. M., NY Fruit and Vegetable Expo, "Sampling Fruit Damage to Make Control Decisions for the Summer Generation of OBLR", Syracuse, NY. (January 25, 2009).
- Agnello, A. M. (Presenter & Author), 83rd Orchard Pest & Disease Management Conference, "A fixed spraying system for applying pesticides to high-density apple plantings", Western Orchard Pest & Disease Management Conference, Portland, OR. (January 15, 2009).
- Reissig, W. H., Agnello, A. M., Western Orchard Pest Management & Disease Conference, "Sampling Fruit Damage to Make Control Decisions for the Summer Generation of OBLR", Portland, Oregon. (January 15, 2009).
- Reissig, W. H., Agnello, A. M., Cooley, D. C. (Author Only), Clements, J. C. (Author Only), Rozyne, M. (Author Only), Green, T. A. (Author Only), Cumberland-Shenandoah Fruitworkers Conference, "Creating a New Market Niche for Eastern Apples Treated With Reduced-Risk Pesticides", Accepted. (2008).
- Agnello, A. M. (Presenter & Author), Reissig, W. H. (Author Only), 84th Cumberland Shenandoah Fruit Workers Conference, "Evaluations of Mechanically Applied/Low-Labor Pheromone Products for Mating Disruption of Tree Fruit Moth Pests", Accepted, Cumberland Shenandoah Fruit Workers, Winchester, VA. (December 4, 2008).
- Agnello, A. M., Entomological Society of America Annual Meeting, "Challenges and triumphs associated with SPLAT Cydia: Codling moth mating disruption in apple and pear orchards", Reno, NV. (November 2008).

- Reissig, W. H., Agnello, A. M., Cooley, D. C. (Author Only), Clements, J. C. (Author Only), Rozyne, M. (Author Only), Green, T. A. (Author Only), International Organization of Biological Control Fruit Workers IPM Conference, "Creating a New Market Niche for Eastern Apples Treated With Reduced-Risk Pesticides", Accepted, International Organization of Biological Control, Avignon, France. (November 2008).
- Agnello, A. M. (Presenter & Author), Agriculture and Food Systems November In-Service, "Evaluations of Mechanically Applied/Low-Labor Pheromone Products for Mating Disruption of Tree Fruit Moth Pests", Accepted, Cornell Cooperative Extension, Ithaca, NY. (November 12, 2008).
- Agnello, A. M. (Presenter & Author), Reissig, W. H. (Author Only), VII International Conference on Integrated Fruit Production, "Developing a protocol and a marketing niche for EcoApples in NY State", Invited, International Organization for Biological Control, Avignon, France. (October 27, 2008).
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- Agnello, A. M. (Presenter & Author), Landers, A. J. (Author Only), 1st North American Conference on Precision Fruit Spraying, Canandaigua, NY, "A fixed spraying system for commercial high-density apple plantings", Invited, Cornell Univ - NYSAES, Canandaigua, NY. (April 8, 2008).
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- Reissig, W. H., Agnello, A. M., Upper Hudson-Champlain Tree Fruit School, "OBLR Management, What's New", Accepted, Cornell Cooperative Extension Saratoga Extension, Lake George NY. (February 2008).
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Agnello, A. M. (Presenter & Author), Reissig, W. H. (Author Only), 82nd Orchard Pest & Disease Management Conference, "Obliquebanded leafroller (*Choristoneura rosaceana*) adult and larval summer infestation trends in apple on a whole-farm scale", Accepted, Western Orchard Pest & Disease Management Conference, Portland, OR. (January 10, 2008).

PEER REVIEWED RESEARCH PUBLICATIONS (peer reviewed past 10 years)

NON-PEER REVIEWED RESEARCH PUBLICATIONS (past 10 years)

Sheriff, M.J. and **J.S. Thaler**. 2014 Ecophysiological effects of predation risk; an integration across disciplines. *Oecologia* 2014, 176:607-611.

BOOK CHAPTERS (past 10 years)

Book, Scholarly

Sutton, T. B., Aldwinckle, H. S., Agnello, A. M., Walgenbach, J. F. (2013). In Sutton, T. B., Aldwinckle, H. S., Agnello, A. M., and Walgenbach, J. F. (Ed.), *Compendium of Apple and Pear Diseases and Pests, 2nd ed.* (2nd ed., pp. 224 pp). St. Paul, MN USA: American Phytopathological Society.

Peck, G. M., Merwin, I. A., Agnello, A. M., Caldwell, B., Curtis, P. D., Gardner, R. D., Helms, M. J., Rosenberger, D. A., Thomas, E., Watkins, C. B. (2009). In G. M. Peck and I. A. Merwin (Ed.), *A grower's guide to organic apples* (223rd ed., pp. 64 p.; <http://nysipm.cornell.edu/organicguide/apples.pdf>). Geneva, NY, USA: NYS IPM Publication.

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EXTENSION PUBLICATIONS

Impact Statements

Developing management alternatives for spotted wing drosophila - (2012 - Present)

Spotted wing drosophila, invasive fruit fly - (2012 - Present)

Developing sustainable and organic pest management programs for orchard systems - (2009 - Present)

Development and validation of a web-based system to provide tree fruit pest development predictions and management recommendations - (2009 - Present)

Site-specific IPM apps using weather networks: NEWA - (1996 - Present)

Development of Pest Management Thresholds and Management Strategies for the Invasive Brown Marmorated Stink Bug, Halyomorpha halys (Stål): (Pentatomidae) In Commercial Tree Fruit in the Hudson Valley of NY. - (2015 - 2017)

Survey of invasive insect pests of tree and small fruit - (2011 - 2017)

Engineering methods to improve pesticide application and reduce environmental pollution - (2008 - 2017)

Detecting & Responding to Ambrosia Beetle Infestations in New York Apple Orchards - (2014 - 2016)

Quantifying and enhancing the role of native bees in apple pollination - (2009 - 2015)

Integration of reduced-risk pesticides and IPM techniques for economically sustainable apple production - (2007 - 2010)

Testing the "PETE" insect development prediction model to limit the resurgence of codling moth in apples - (2007 - 2009)

Comparison of mechanically applied pheromone dispensing technologies for mating disruption of tree fruit pest moths - (2008)

Development of an enhanced tree fruit IPM website for Northeast apple growers - (2008)

Finding niche markets for northeastern-grown "EcoApples" - (2008)

Whole-farm apple arthropod management using reduced-risk tactics and IPM sampling & monitoring - (2008)

Evaluation of multi-tactic systems for control of internal feeding worms in western New York apples - (2007)

Marketing Northeastern-grown eco-apples - (2007)

Whole-farm apple arthropod management using reduced-risk tactics and IPM sampling & monitoring - (2007)

INTELLECTUAL CONTRIBUTIONS

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- Piñero, J. C., Agnello, A. M., Tuttle, A., Leskey, T. C., Faubert, H., Kohler, G., Los, L., Morin, G., Leahy, K., Cooley, D. R., Prokopy, R. J. (2011). Effectiveness of odor-baited trees for plum curculio (Coleoptera: Curculionidae) monitoring in commercial apple orchards in the northeast. *Journal of Economic Entomology*, 104, 1613-1621.
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- Agnello, A. M., Loeb, G. M. (2008). Insect and Mite Scouting and Management. In Bushway, L., Pritts, M., and Handley, D. (Ed.), *Raspberry & Blackberry Production Guide for the Northeast, Midwest, and Eastern Canada*. (ed., pp. pp. 79-91). Ithaca, NY, USA: NRAES (Natural Resource, Agriculture, and Engineering Service).

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- Scaffolds Fruit Journal. Weekly newsletter on tree fruit crop and pest development, local observations, and management recommendations; 25 issues posted weekly from 21 March to 7 September. <http://www.scaffolds.entomology.cornell.edu/index.html>. (March 2011)
- Scaffolds Fruit Journal. Weekly newsletter on tree fruit crop and pest development, local observations, and management recommendations; 25 issues posted weekly from 22 March to 7 September. <http://www.nysaes.cornell.edu/ent/scaffolds>. (March 2010)
- Pest Management Guidelines for Commercial Tree-Fruit Production. Coordinated the editing and formatting of Cornell extension recommendations for crop and pest management of tree fruits, for web-based html format. <http://ipmguidelines.org/treefruit>. (March 2009)
- Scaffolds Fruit Journal. Weekly newsletter on tree fruit crop and pest development, local observations, and management recommendations; 25 issues posted weekly from 23 March to 8 September. <http://www.nysaes.cornell.edu/ent/scaffolds>. (March 2009)
- Pest Management Guidelines for Commercial Tree-Fruit Production. Coordinated the editing and formatting of Cornell extension recommendations for crop and pest management of tree fruits, for web-based html format. <http://ipmguidelines.org/treefruit>. (April 2008)
- Scaffolds Fruit Journal. Weekly newsletter on tree fruit crop and pest development, local observations, and management recommendations; 25 issues posted weekly from 24 March to 9 September. <http://www.nysaes.cornell.edu/ent/scaffolds>. (March 24, 2008)

Magazine

- Good Fruit Grower. 66 (17): 66-70. The growing threat of black stem borer. <http://www.goodfruit.com/the-growing-threat-of-black-stem-borer/>. (December 2015)
- Growing Magazine. Codling Moth: A Key Pest in Apple Production Regions of North America. <http://www.growing-digital.com/#&pageSet=13>. (June 2015)
- Good Fruit Grower. 66 (5): 12-15. Beetle biocontrol. <http://www.goodfruit.com/beetle-biocontrol/>. (March 2015)
- Fruit Growers News. 53(12): 20, New York-developed alfalfa pest might be useful for apple growers (Kara Lynn Dunn). (December 2014)

Newspaper

- Cornell Daily Sun. Cornell Daily Sun Vol. 131 (32): 8. <http://cornellsun.com/blog/2014/10/08/the-scientist-prof-arthur-agnello-can-safely-remove-bugs-from-trees/>. (October 8, 2014)

NY Times. Interviewed by Claiborne Ray, NY Times, for "Science Times" Q&A feature on fruit flies. <http://www.nytimes.com/2011/10/04/science/04qna.html>. (October 2011)

NY Times. Interviewed by Anne Raver, NY Times, for Brown Marmorated Stink Bug feature. <http://www.nytimes.com>. (April 2011)

Radio

WXXI - Rochester Public Radio. Interviewed by Alex Crichton, WXXI Radio for Brown Marmorated Stink Bug news spot, Geneva, NY. (March 2011)

TV

WHEC - CBS. Interviewed by Ted Fioraliso, WHEC (Rochester) Channel 10 News for Brown Marmorated Stink Bug news spot, Geneva, NY. (April 2011)

WSTM - NBC. Interviewed for news segment on Entomological Society of America-Eastern Branch Annual Meeting and Public Outreach Program, "It's a Bug's World", March 9, Syracuse, NY. (March 2008)

EXTENSION/OUTREACH

Program Work Team(s)/Program Councils, Administrative Leadership (positions related to Extension, i.e. DEL, program leader, etc.)

Board Member, New York State Horticultural Society, Geneva, NY. (2015 - Present).

DEL, Entomology-Geneva. (1986 - Present).

Member, Fruit Program Work Team. (1986 - Present). Co-Chair (2013 - Present).

Participant - Audit of Apple Pesticides, EU Food & Veterinary Office, Geneva, NY. (2011).

Participant, Expert Working Group for Pest Risk Analysis, European and Mediterranean Plant Protection Organization, Paris. (2009).

Policy Engagement/Leadership (advisory/legislative/regulatory boards/panels)

Committee Co-Chair, Other. (2013 - Present).

Committee Member, Other. (2013 - Present).

Key Audiences and Scope of Impact

Interactive web technology for tree fruit and berry diseases - (2007 - 2016)

Impact Summary: The Tree Fruit and Berry Pathology Web Presence consists of an interactive website hosted on the Cornell Fruit web server at www.fruit.cornell.edu/tfabp/.

Additional web technologies consist of the Twitter account @FruitPathology and collaborative projects with the New York State Integrated Pest Management Program and the Cornell Cooperative Extension Pest Management Education Program.

My program's website was designed to provide resource material on fruit diseases and timely information on emerging disease concerns and management, while pesticide education and decision-making tools (<http://treefruitipm.info/>) have been developed in collaboration with the Pest Management Education Program, and disease-forecasting tools (http://newa.nrcc.cornell.edu/newaModel/apple_disease) were developed in collaboration with the New York Integrated Pest Management Program and Northeast Regional Climate Center.

Reducing economic and environmental risk from codling moths and Oriental fruit moths - (2008 - 2009)

Impact Summary: Codling moths (CM) and Oriental fruit moths (OFM) pose economic and environmental risks to apple production in New York. In spite of monitoring, insect developmental models, and increased insecticide usage in high pressure blocks, many growers are still having problems due to insufficient spray coverage and/or insecticide resistance. These two factors can be mitigated by evaluating and improving spray coverage in various tree sizes and/or using mating disruption pheromone technology. The costs of these two approaches differ significantly. Through on-farm demonstrations and workshops, this project increased the growers' ability to analyze the economic risk and choose the optimal solution. Apple growers learned how to implement mating disruption pheromones, evaluate spray coverage results, and evaluate the cost-benefit of using mating disruption and other practices for control of CM and OFM. This project will reduce damage and the economic and environmental risks associated with CM and OFM.

Other Relevant Extension/Outreach Activities, Accomplishments, etc.

2015

International Fruit Tree Association - Participant, 58th Annual Conference, Halifax, Nova Scotia, Canada

2015

International Outreach - Hosted Dr. Chun-Sen Ma and Dr. Gang Ma, Institute of Plant Protection, China Academy of Agricultural Sciences, for discussions of tree fruit insect development and response to climate change, plus tour of Geneva and Ithaca department.

2014

International Fruit Tree Association - Participant, 57th Annual Conference & Tour, Kelowna, British Columbia, Canada

2014

International Outreach - NY apple insect research and extension update. Presentation to AQSIQ Chinese Plant Quarantine Agency/US Apple Export Assoc. tour group, NYSAES

2013

Cornell Fruit Field Days 2013 - Organizing committee member and co-organizer of the Cornell Fruit Field Day 2013 at the Geneva Experiment Station. 34 research presentations were given by 20 researchers to 350 attendees from NY and surrounding states and provinces, with displays and equipment demonstrations by 26 corporate sponsors.

2010

Cornell Fruit Field Days 2010 - Organizing committee member and co-organizer of the Cornell Fruit Field Days 2010 at the Geneva Experiment Station. 40 research presentations were given over two days by 23 researchers to 400 attendees from NY and surrounding states and provinces, with displays and equipment demonstrations by 25 corporate sponsors.

2009

International Fruit Tree Association - Participant, Summer "Short Tour", Annapolis Valley apple region, Nova Scotia, Canada

PROFESSIONAL OVERVIEW AND OBJECTIVES

My main goal in tree fruit extension entomology is to interpret the results of current research on fruit pests and formulate it into useful information that can then be made available to various clientele groups. I am a primary contributor to the development and implementation of the fruit program area plan of work that addresses the needs of diverse audience groups, including: the horticultural industry sector (growers, consultants, agricultural industry representatives of crop protection, production, processing, packing/storage, and distribution companies); governmental and regulatory agencies; campus- and field-based Cornell Cooperative Extension agents, specialists, and support staff; academic peers in neighboring states and provinces; and the public sector, including homeowners, community groups, local schools, and other public organizations.