CURRICULUM VITA (updated July, 2019)

Anthony M. Shelton

Professor, Department of Entomology
International Professor
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Academic Record:

St. Mary's College of California, Moraga, CA - 1967-71 - B.A. (Classics & Philosophy)

Cabrillo College, Aptos, CA - 1973-75 (Biology & Chemistry)

University of California, Riverside, CA - 1975-79 - M.S., Ph.D. (Entomology with emphasis in insect pest management and biological control)

PROFESSIONAL EXPERIENCE (ACADEMIC):

Research Assistant, University of California, Riverside, Department of Entomology - 1976-79.
Assistant (1979-85), **Associate** (1985-93) and **Full Professor** (1993-present), Department of Entomology, Cornell University's New York State Agricultural Experiment Station, Geneva, NY.

The focus of my research and extension program is to develop sound insect management strategies for vegetables, with spin-offs for others crops, using a sound understanding of insect ecological principles. This broad focus allows us the opportunity to work simultaneously in basic and applied areas on a number of important insects. Our program works with presently available strategies and helps incorporate them into pest management programs, and develops new strategies for the future. Examples of projects include: developing sampling and treatment guidelines for specific crops; understanding and modifying ecological factors that influence the risk of infestation; incorporating biological control into insect management strategies; studying mechanisms of host plant resistance and working with companies to develop resistant germplasm; conducting environmental risk assessments for Bt plants and traditional insecticides; evaluating presently registered insecticides and those under development for their effects on pests and non-target organisms; developing insecticide resistance management strategies; studying the movement of insects within and between crops in the agroecosystem; working in a team to develop and deploy Bt vegetable crops; developing trap crop strategies for IPM. Our extension program focuses on helping growers implement sound IPM strategies and educating the public about agricultural issues, including biological control and biotechnology. Our program is also involved in helping develop regulatory policies on a national and international level, especially for transgenic insecticidal plants. International activities are focused primarily in India, Bangladesh, China, and Latin America.

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Associate Director of Research and **Associate Director of the Cornell Agricultural Experiment Station**, Ithaca NY - 1993-2001. Responsible for enhancing research funding for CALS, initiating several new programs for CALS, administering Federal Formula Funds and integrating research and extension programs. Member of CALS administration.

Professor of International Agriculture and Associate Director of International Agriculture Programs, 2002- present. This position leads me to travel internationally for 2-3 months per year working on projects in developing countries including India and Bangladesh for Bt eggplant. I also have projects in China, South Asia and Eastern Europe.

Director of the USAID project: Feed the Future South Asia Eggplant Improvement Partnership in Bangladesh and the Philippines, Oct. 2015- present.

DIVISION OF EFFORT:

Period	Research	Extension	Teaching	Administration
10/2015 to present	90%	-	10%	-
10/200 to 10/2015	60%	10%	30%	-
1/2001 to 10/2001	70%	15%	15%	-
7/1993 to 1/2002	50%	-	-	50%
7/1979 to 7/1993	80	20	-	-

A. PROFESSIONAL ACTIVITIES

HONORS, AWARDS, FELLOWSHIPS (SELECTED):
Plenary speaker 7th Int. Conf. on Diamondback Moth, Bangalore, India, 2015
Entomology Society of America. National IPM Team Award, 2013
Outstanding New Extension Publication, NYS Assoc. of Ag Agents, 2011
Plenary Speaker, Entomological Society of Canada, Halifax, NS, 2011
L. O. Howard Award Eastern Branch Ent. Soc. America, 2011
Fellow of the Entomological Society of America, elected in 2010
Keynote Speaker, Int. Assoc. of Plant Biotechnologists, St. Louis, MO, 2010
Chinese lectureship at 4 Institutes, 2009
Cornell (CALS) Award for Applied Research, 2007
National Ag Ext Award for Publication, "Organic Agriculture", 2006
NYS - Excellence in Crop Production Publication Award, 2006
NE Regional Finalist Publication Award for the "Swede Midge ID Guide", 2005
Nat'l Assoc. Co. Ext. Agents, State Award and NE Finalist for Publication, 2005
Ent. Soc. America National Recognition Award for Research, 2005
Plenary lecture, Environmental Sciences and Forestry, SUNY, 2004
Plenary lecture, XVth Int. Congress of Plant Protection, China, 2004
Am. Soc. for Hort. Sci. National Award for Extension Publication, 2004
NYS Assoc. of County Ag Agents Award for brochure on swede midge, 2003
CALS Professor of International Agriculture, 2002 to present
Plenary lecture, Int. Conf. on Biocontrol of Diamondback Moth, France, 2002
Cornell International Traveling Fellowship, 2002
Plenary lecture, 4th Int. Conf. Diamondback Moth, Melbourne, Australia, 2001

NOVA lectureship (Nordic Countries), 2001
Plenary lecture, American University in Beruit, 2000
New York State Award for Excellence in IPM, 1997
China-US Scholar Exchange, 1996
Plenary lecture, Nordic Agricultural Scientists, 1995
Ent. Soc. America National Award Excellence in IPM, 1995
Cornell International Traveling Fellowship, 1989
Netherlands Ministry of Agriculture Research Fellowship, 1986

Membership in Academic Fields at Cornell:
Entomology
Plant Protection
International Agriculture and Rural Development

Professional Societies:
Entomological Society of America
Society for Invertebrate Pathology
International Organization on Biological Control
International Association for the Plant Protection Sciences
National Agricultural Biotechnology Committee (Chair in 2006-7)
Florida Entomological Society

Sabbatical Leave:
University of Hawaii and Cornell- 11/2012-4/2013
Lincoln University, New Zealand- 1/07-4/07
University of California, Davis- 9/06- 12/06
Waite Institute, University of Adelaide, Australia- 1/02-5/02
Institute for Plant Protection, Wageningen, The Netherlands - 3/86 - 9/86

National and International Panels and Workshops Invited Participant (selected):
International Workshops on Diamondback Moth, every 5 years from 1986-2019 European Food Safety Authority Conference on RNAi, Brussels 2014
Global Biosafety Management Program, India, 2009, 2010, 2011, 2013
Pest Management Alternative Program, Grant Review Panel, 2010-2012
International Workshop for Biotech Regulators, Goa, India, 2010
Bt Eggplant Workshop, Manila, the Philippines, 2009
International Life Sciences Institute Workshop on Non-target Organisms, 2009
National Academy of Sciences, Board on Ag Review, 2008, 2009, 2010Pest Management Alternative Program, Grant Review Panel, 2009
Western Region-IPM, Grant Review Panel, 2007
USAID-Plant Biosafety Systems Review Panel, 2007
European Food Safety Authority, Parma, Italy, 2007
Lincoln University (NZ) Curriculum Reorganization Panel, 2006
APHIS Workshop on Monitoring the Effect of Bt Plants on Non-targets, 2004
EPA Workshop on Monitoring Bt Plants, 2004
Cornell BARD Program, Director, 2004
Association of Liason Office, USAID, Review Panel, 2004
Council on Agriculture, Science and Technology- Resistance to Pesticides, 2003
National Academy of Sciences Panel on Containment of GMOs, Presenter, 2002

Canadian Gov't Panel on Biotechnology, Ottawa, CN, 2002
EPA Workshop Series on Bt Corn Resistance Management, 2001
USDA-IFAFS Panel Manager, Biotechnology, 2001
EPA Risk/Benefits Panel for Bt Crops, 2000
Congressional Testimony on GMOs to the House of Representatives, 1999
Ag Biotech Stewardship Committee-Insect Resistance Management, 1998-2002
Pest Management Alternative Program, Grant Review Panel, 1997-2000 USDA/ARS Ithaca
Review Panel on Biological Control, 1996
Dept. of Entomology Review, Univ. of Maryland, 1996
USDA Pest Management Alternatives Review Panel, 1996
USDA NC-IPM Review Panel, 1994
USDA Scientific Panel on Bt resistance, 1992
USDA Small Business Innovation Program, 1988
USDA/NRI Competitive Grant Panel on Insect Stress, 1984

Entomological Society of America and Other Scientific Duties (selected):
Symposium Organizer, ESA National Meeting, 2018
Session Organizer, Int. Society of Biosafety Research, 2017, Guadalajara, MX
Session Organizer, International Congress of Entomology, 2016, Florida, USA
Program Organizer, 7th Int. Workshop on Diamondback Moth, India, 2015
Presidential Committee on Grand Challenges for Entomology, 2014
Symposium Organizer, ESA National Meeting, 2013
Symposium Organizer, 4th Int. Symp. on Biocontrol of Arthropods, Chile, 2013
Symposium Organizer, International Congress of Entomology, 2012, South Korea
ESA Team Award Committee, 2011-2013
ESA National Recognition Award Committee, 2010-2012
Board Member, American Entomologist, 2010- 2014
Symposium Organizer, 6th Int. IPM Symp., Portland, OR, 2009
Symposium Organizer, 3rd Int. Symp. on Biocontrol of Arthropods, NZ, 2009
Symposium Organizer, International Congress of Entomology, SA, 2008
Program Organizer, 5th Int. Workshop on Diamondback Moth, China, 2006
Organizer, National Agricultural Biotechnology Council Annual Meeting, 2006
Symposium Organizer, 2nd Int. Symp. on Biocontrol of Arthropods, CH, 2005
Symposium Organizer, XVth Int. Congress of Plant Protection, China, 2004
Symposium Organizer, International Congress of Entomology, Australia, 2004
Symposium Organizer, ESA National Meeting, 2004
Symposium Organizer, ESA National Meeting, 2003
Subject Editor, Insecticide Resistance, J. Econ. Entomol., 2001-2014
Committee on Ethics for ESA, 1998 –2002
Program Committee, ESA Eastern Branch, 1992
Linnaean Games Committee, ESA Eastern Branch, 1990
Symposium Organizer, ESA National Meeting, 1988
Program Committee, ESA Eastern Branch, 1988
Program Committee, ESA Eastern Branch, 1983
Symposium Organizer, ESA National Meeting, 1982

Reviewer for journals and grants (selected):
I was a subject editor (Insecticide Resistance) for J. Econ. Entomology from 2002-20014, handling about 30 manuscripts per year. I also review 2-5 manuscripts per month total from the

following journalsJournals: Science, Nature, PNAS, PLOS, Nature Biotechnology, Crop Protection, BMC Biology, Journal of Economic Entomology, Environmental Entomology, Journal of Insect Science, Insects.
I normally review a total of 3 grants per year from the following programs: USDANRI/AFRI, USDA Risk Assessment, USDA Special Grants, Small Business Innovation Research Grants, various state programs and BARD.

B. ADVISING, TEACHING AND MENTORING

Major Professor for students and their present position:
Dan Olmstead, MS, 2015; Research Support Specialist, Cornell/NYSAES
Saurabh Gautam, MS 2013; PhD student University of Georgia
John Diaz-Montano, Ph.D. 2010. Columbian Corp. for Ag. Res., Bogata
Francisco Badeness-Perez. Ph.D. 2005. Government Researcher, Spain
Elizabeth Goulet, M.S. 2003. Ph.D. at Cornell in 2009, Faculty, N. Seattle JC
Fred Musser, Ph.D. 2003. Professor, Mississippi State University
Wini Utari, MPS 1997. Later received her Ph.D. from Univ. of Kentucky
Rebecca Smyth, M.S. 1999. Completed her Ph.D. at Cornell and works at CU
Alfredo Rueda. Ph.D. 2000, IPM Program, Zamorano, Honduras
Luis Vasquez, M.S. 1994 and Ph.D. 1998. Dow AgroSciences
Mark Schmaedick, Ph.D. 2000, Research Faculty, Univ. of American Somoa
Carlos Perez, M.S. 1993 and Ph.D. 1996, Consultant based in Nicaragua
Sanford Eigenbrode, Ph. D. 1990, Professor, Univ. of Idaho
Bill Sheehan, Ph.D. 1988, Consultant
Susan Webb, Ph.D. 1988, Associate Professor, University of Florida
Kim Stoner, Ph. D. 1988, Scientist, Connecticut Ag. Expt Station
Casey Hoy, Ph.D. 1988, Professor, Ohio State University
Richard Meadow, MS 1984, Research Scientist, Research Scientist, Norway
Committee Member for:
Rini Murtiningsih, Ph.D. 2014 (outside reviewer for U. of Queensland, AU)
Dominic Cross, Ph.D. 2014 (outside reviewer for University of Sydney, AU)
Elaine Fok, MS 2013, Entomology, Cornell
Gonzalo Aguayo, Ph.D. University of Mexico, Texcoco
Munir Ahmad, Ph.D. 2009 (outside reviewer for Bahauddin, Pakistan)
Erik Smith, MS., 2009, Entomology, Cornell
Sarah Nell Davidson, Ph.D. 2009, Plant Biology, Cornell
Jason Cavaatorta M.S., 2008, Plant Breeding and Genetics, Cornell
Muhammad Sarfraz, Ph.D. 2008 (outside reviewer Univ. of Alberta)
Nancy Endersby, Ph.D., 2006 (outside reviewer for Monash Univ., Australia)
Jennifer MacIntyre Allen, Ph.D. 2004, (outside reviewer for Univ. of Guelph)
Muhammad Sarjan, Ph.D. 2003, (outside reviewer for University of Adelaide)
Tamara Jane Smith, Ph.D. 2003, (outside reviewer for Rhodes University)
Pahol Kosiyachinda, Ph.D. 20002. Plant Pathology at Cornell
Ovidio Diaz Gomes, Ph.D. 1999, Colegio de Postgraduados, Mexico
Lynne Grbin, Ph.D., 1997 (outside reviewer for University of Adelaide, Australia)
Sivapragasam Annamalai, Ph.D. 1995 (outside reviewer for University of Malaysia)
Nancy Beck, Ph.D. 1991 (outside reviewer for University of Auckland)
D. Kumaresan, Ph.D. 1989 (outside reviewer for Annamala U., India)
Jeff Stewart, Ph.D. 1988 (outside reviewer for University of Guelph)

Maria Stella Pacheco, MS 1989, MPS Program in Plant Protection, Cornell

Teaching:

I taught the following formal courses:

ENT 7670 (2 units), Professional Development in Entomolgy,
required of all incoming entomology graduate students. 2014, 2015 2016, 2017.

ENT 2410 (3 units), Applied Entomolgy. 2011, 2012, 2013, 2014. The overall class evaluations (out of a possible 5) for each year were, 4.9, 4.0, 4.4 and 4.0, respectively.

Entomology 441 (2 units), Seminar in IPM. 1983, 1984, 1985. No scored evaluations.

I regularly participate in the following courses:

IARD 4020 - Agriculture in Developing Nations
IARD 6020 - Agriculture in Developing Nations
CSS 4100- The GMO Debate: Science and Society
AEM 6600- Agroecosytems, Economic Development and the Environment
PL BR 4826 Plant Biotechnology.
Field trip provided for PL PA 419.

Mentoring:

Postdoctoral Associates and Visiting Scientists (country)

Dr. Srinivasan Ramasamy (Taiwan)	2018-2019
Adam Walker (UK)	2015-2017
Dr. Tim Harvey-Samuel (UK)	2012- 2015
Dr. Michael Bolton (UK)	2014- 2017
Dr. Masa Seto (Japan)	2012- 2016
Dr. Xiao-Xia Liu (China)	2014- 2015
Dr. Yao Jun (China)	2012- 2014
Ms. Yanyan Guo (China)	2013-4
Dr. Rishi Kuman (India)	2012-2013
Dr. Honghua Su (China)	2012-2014
Ms. Xiao-Wei Li (China)	2012- 2014
Dr. Xiang-ping Wang (China)	2011-2012
Dr. Mao Chen (China)	2005- 2010
Dr. Li-ping Long (China)	2011-2012
Dr. Tian Junce (China)	2010- 2014
Dr. Jozsef Fail (Hungary)	2009- 2014
Dr. Travis Glare (New Zealand)	2012
Dr. Hussain Abro (Pakistan)	2010-2011
Dr. Yunhe Li (China)	2009-2010
Dr. Xiao-Xia Liu (China)	2009- 2011
Mr. WeiWei Lin (China)	2007-2008
Ms. Lin Mei-ying (Taiwan)	2007
Dr. G. Gujar (India)	2007
Dr. Eleni Larentzaki	2005- 2007
Dr. J. Zhao (China)	1997-2007
Dr. F. Badenes-Perez (Spain)	2005-2006
Dr. Q. Wu (China)	2004-2005
Dr. Sarah Bates (Canada)	2002-2004
Dr. Fred Musser (US)	2002-2004
Dr. Shu-shen Liu (China)	2001
Dr. J. Curtis (Australia)	1998-2000

Dr. J. Jyoti (Nepal)	1998-2000
Dr. M. Schmaedick (US)	2000
Dr. J. Xu (China)	2000
Dr. O. D. Gomez (Mexico)	1997
Dr. D. M. Sanchez (Mexico)	1996
Dr. R. Meadow (Norway)	1996
Dr. C. Perez (Nicaragua)	1996-1998
Dr. P. Cameron (New Zealand)	1995
Dr. N. Talekar (Taiwan)	1992-1993
Dr. P. Cameron (New Zealand)	1993
Dr. P. Schroeder (US)	1994-1996
Dr. C. Ferguson (US)	1994-1996
Dr. Sanford Eigenbrode (US)	1990
Dr. John Trumble (US)	1990
Dr. W. Sheehan (US)	1988
Dr. R. North (US)	1984-1987

C. COLLEGE AND UNIVERSITY SERVICE:

Associate Director of International Program for CALS 2002- present

CALS Faculty Senate, 2013-7
Entomology Curriculum and Teaching Committee, 2011-2016
Department Awards Committee (2010-2014)
Cornell Vegetable Program Work Team, Chair 2012-3
Cornell University Appeals Committee (2009-2012)

Associate Director of the Cornell Experiment Station and Associate Director of Research, 1993-2001

NYSAES Entomology Coordinator for Greenhouse and Incubators, 1995-present
NYSAES Pesticide Committee, 2000- present
Cornell Pest Control Conference Participant, 1979-1992
NYSAES Entomology Seminar, 1980-1981, 2006- 2011
Cornell Entomology Graduate Admissions Committee, 1983-1986, 1992-6
NYSAES Grape Entomologist Search Committee, Chairman, 1984
NYSAES Insect Molecular Geneticist Search Committee, 1984
Cornell IPM Vegetable Coordinator Search Committee, Chairman, 1984
NYSAES General Policy Committee, 1986-1990
Cornell Vegetable Breeding Institute Steering Committee, 1988-present
NYSAES Statistical Services Committee, 1984
Cornell Plant Science Center Committee, 1987-1988
Cornell/BTI Seminar on Biotechnology, Moderator, 1988
CALS MPS Program in Plant Protection, Admissions Comm. 1990-present
Cornell CALS Tenure Review Committees, 1990-present
Cornell Faculty Council of Representatives 1991-1994
CALS Environmental Task Force 1992
Chair, Dean's Review Committee for the Food Science Dept./Geneva, 1994
Committee to Review Cornell's Insect Science Program, 1994
Strategic Planning Committees (CALS and University), 1994/95
Organizer, CALS Conference on Biological Control, 1995
CALS Faculty Senate, 1995- 2000
CALS International Agricultural Planning Council, 1995-2000

Chair, CALS Agricultural Council, 1997-2001
University Faculty Senate, 1996-2001
Agricultural Systems Initiative (CALS) co-coordinator, 1998-2001
CALS Statewide Programs Committee (Vegetables), 1999-present
Chair, NYSAES Vegetable Entomologist Search, 2000
Organizer, CALS Conference on Agricultural Biotechnology, 2000
CALS representative on the National Ag. Biotech Council, 2003-2008
Chair, CALS Agricultural Biotechnology Advisory Group, 2000-2001

RESEARCH COMMITTEES:
NY Vegetable Program Work Team
NY Cabbage Advisory Committee
NY Processing Vegetable Committee
NY Vegetable Agents Training School
NY Vegetable Control Recommendations
NY IPM Committee

D. PROGRAM OVERVIEW AND HIGHLIGHTS

SELECTED RESEARCH AND EXTENSION ACCOMPLISHMENTS:

The accomplishments of our research program have been, in large part, due to the many technicians, graduate students, post-docs and visiting scientists we have had working in our program, as well as close working relationships with various colleagues in my own and in other departments and with industry. A partial list of our most significant accomplishments is listed below:

Developed and implemented sampling programs and thresholds for insect pests of cole crops, Lepidoptera on sweet corn, and onion thrips on onions. In the case of processing sweet corn, the insect management program reduced the use of insecticides by ca. 50% per year. This program was transferred to the NYS industry through a private consulting company. The overall savings to the industry is ca. $1M per year.

Documented the predators and parasitoids of pests of cole crops and Lepidoptera on sweet corn in NY and determined their effects on pest suppression and devised strategies to increase their effectiveness through use of selective insecticides and other practices.

Conducted the first field-release in North America of a genetically engineered insect with a self-limiting gene for pest management. This study followed a greenhouse study that demonstrated this strategy could reduce a pest population and reduce the frequency of insecticide resistant genes.

Manage a USAID project on Bt eggplant in Bangladesh and the Philippines.

Conduct a yearly program evaluating insecticides (conventional and biological) for control of insects affecting cole crops, sweet corn and selected vegetables.

Coordinated and published the first scientifically-based compendium on organic methods to control insects and diseases in vegetables.

Documented the ecology and population dynamics of the thrips complex in the varied agroecosystem of upstate NY and used this information to devise strategies for controlling onion thrips affecting cabbage and onions.

Published the first study documenting that the use of Bt plants was safer to a parasitoid than the use of conventional and organic insecticides. Developed a body of literature on the effects of Bt plants on natural enemies using resistant hosts to exclude potential 'host quality effects.'

Developed a defect action threshold for the US FDA that has, in conjunction with the development of host plant resistance in cabbage, dramatically reduced spraying for thrips in processed cabbage.

Studied the infestation patterns of onion thrips in cabbage, documented sources of plant resistance, worked with the seed industry and devised insecticide control strategies for the field.

With colleagues at BTI, conducted the first large-scale field test of a genetically altered virus for insect control in 1999.

Studied the epidemiology of a granulosis virus infecting imported cabbageworm and an NP virus infecting cabbage looper.

Determined the role of leaf surface waxes of cabbage in host plant resistance to neonate diamondback moth.

Coordinated a national program to document the resistance levels in diamondback moth to the major classes of synthetic insecticides. This has been extended to other countries.

Documented the occurrence of resistant diamondback moths in the Northeastern US as often being the result of insecticide practices in southern areas and the transport of the insects on transplants. This has become a major management tool for this pest in NY.

Documented resistance to *Bacillus thuringiensis* using field and laboratory methods. This was the first study published which documented actual control failures due to resistance.

Conducted studies on the management of resistance to *Bacillus thuringiensis* when it is applied as a foliar spray or incorporated into plants. In conjunction with Lisa Earle and Rick Roush, developed the Bt broccoli/diamondback moth system to evaluate various resistance management strategies for transgenic plants.

Developed and utilized the first rapid assay to detect resistance to pyrethroids in onion thrips, and used this technique to study its ecology in the onion landscape.

Coordinated the first large scale, cross-disciplinary Cornell Community Conference on Biological Control and coordinated the development of a WWW site Natural Enemies: A Guide to Biological Control Agents in North America. This site receives upwards of 15,000 "hits" per month.

Developed management programs for swede midge and leek moth, newly invasive species in the Northeast.

Documented gene flow between sexual and asexual lineages of *Thrips tabaci.*

Coordinated the development of educational materials on agricultural biotechnology for CALS and the Land Grant Community. This includes printed material (>140,000 copies) as well as the web site "Informing the dialogue about agricultural biotechnology."

Worked with international scientists on management programs for insects affecting vegetables in several countries including India, Bangladesh, China, Mexico, Honduras, Nicaragua, Holland, Zimbabwe, Indonesia and Malaysia.

E. FUNDING

In my 40 years at Geneva I have been funded as the Principal Investigator or co-Investigator for grants from USDA NRI, Cornell Biotechnology Program, USDA Pest Management Alternative Program, USDA Biotechnology Risk Assessment Program, NE IPM, USAID and EPA grants. In addition, I have received major funding from industry for work on *Bacillus thuringiensis* and for host plant resistance in cabbage. In addition to these sources, I have received considerable support from Hatch Funds, the New York IPM competitive grant program, grower organizations, and the agricultural industry.

MAJOR EXTERNAL FUNDING (Selected)

Shelton/ North/ Nyrop	USDA NRI	Forecasting Risk of Infestation of a Dispersing Insect	$92,000	7/1/84- 6/30/87
Shelton	USDA NRI	Influence of Habitat on Parasitoid Success	$100,000	7/1/86- 6/30/89
Granados/ Shelton	Cornell Biotech	Gene Expression of an Insect Granulosis Virus	$84,340	7/1/86- 6/30/88
Shelton/ Renwick/ Dickson	Cornell Biotech	Crucifer Phytochemicals for Genetically Engineered Plants	$50,000	7/1/88- 6/30/89
Wood/ Shelton/Hughes	EPA	Field Release of a Genetically Altered Baculovirus with Limited Survival Capability	$238,900	7/1/89 6/30/92
Earle/ Roush/ Shelton	USDA NRI	Resistance Management for Bt Endotoxins Development of a Model System	$120,000	7/1/91- 6/30/93
Shelton/ Roush	BT Mgt. Working Group	BT Resistance in Diamondback	$42,000	1/1/92 12/30/93

Dickson/ Shelton	Peto Seed	Breeding for Lepidopteran Resistance 6/30/94	$24,000	7/1/92
Earle/ Roush/ Shelton	USDA NRI	Resistance Management for Bt Endotoxins Testing of a Model System	$140,000	7/1/93- 6/30/96
Hoffmann/ Shelton	NYS Science and Technology Program	Production and Release of Trichogramma	$46,000	7/1/93 12/31/94
Shelton/ Hoffmann/	USDA NE IPM	Management of Insect Pests of Crucifers Using BioControl	$104,614	7/1/93 6/30/96
Knipple/ Reissig/ Shelton/ Aldwinckle/ Norelli/Brown	Cornell Biotech	Bt Transformed Apples	$60,822	7/1/94- 6/30/95
Shelton/ Craighead/ Hoffmann	Cornell Biotech	Nanofabrication of Artificial Insect Eggs	$39,380	7/1/94- 6/30/95
Hoffmann/ Schwartz/ Curits/ Shelton	Cornell Biotech	Biodegradable Fibers for Insect Control	$4,000	7/1/94- 6/30/95
Shelton/ Roush	BT Mgt. Working Group	Understanding BT Resistance	$50,000	1/1/94 12/30/95
Shelton	USDA NBCI	Cornell Community Conference on BioControl	$4,114	2/1/95 5/18/96
Shelton/ Hoffmann	USDA NBCI	Text and Graphic Server for BioControl	$8,396	2/1/95 5/18/96
Hoffmann/ Petzoldt/ Zitter/Reiners/Bellinder/Shelton	Nat'l IPM Implementation Program	IPM for Diversified Fresh Mkt Vegetables	$10,452	7/1/95 6/30/96
Shelton/ Hoffmann	USDA NBCI	Text and Graphic Server for BioControl	$10,000	6/1/96 5/31/97
Shelton/	USDA	Transgenic Plants Expressing Bt toxins	$140,000	7/1/95-

Earle/ Roush	NRI	Can It Be a Successful Strategy?		6/30/98
Shelton/ Hoffmann/ Bellinder/ Kyle/Dillard	USDA	Biological Control of Vegetable Pests: An Interdisciplinary Team 2 Week Visit to China	$10,000	10/96
Shelton/ Vandenberg	USDA Pest Alt	Development and Implementation of Alternative Mgt. for Thrips	$83,978	4/15/97-4/14/00
Shelton	Zamorano/ Nicaragua	Insecticide Resistance in Nicaragua	$76,962	8/1/96-8/31/97
Shelton/ Wood/ Hughes	USDA Fund for Rural America	Center for Biologically Based Pest Mgt.	$24,074	7/1/97-2/31/98
Shelton	USDA Pest Alt.	Cabbage Maggot on Cole Crops: documenting strategies and devel. alternatives	$158,345	9/15/97-9/30/00
Shelton	USDA NBCI	Text and Graphic Server for BioControl	$8,000	6/1/99 5/31/00
Shelton/ Earle	USDA NRI	Developing the Next Generation of Resistance Mgt. Strategies for Bt-plants	$150,000	7/1/99-6/30/01
Earle/ Granados/ Shelton	Cornell Biotech	Insect Control in Transgenic Plants Expressing Enhancing Genes	$24,412	7/1/98-6/30/99
Shelton	USDA PMAP	Development and Implementation of Alternative Mgt. for Thrips on Cabbage	$50,000	8/15/99-8/14/01
Earle/ Shelton	Cornell Biotech	Factors affecting the efficacy of Bt transgenic plants as a biocontrol method	$25,000	7/1/99-6/30/00
Shelton/ Reiners/ Nault	USDA Pest Alt.	Insect Management in Cabbage through the Use of a Novel Trap Crop	$134,004	8/15/01-8/14/03
Shelton/ Earle	USDA BRAG	Assessing the Risk of Adaptation to Transgenic Plants with Staked Bt Genes	$230,000	9/15/01-9/14/04
Rangarajan/ Shelton et al.	IFAFS	Northeast Organic Agriculture	$1,200,000 10/14/03	10/15/01
Earle/Shelton		USDA/NRI	$160,000	

Promoters for IRM 9/30/04				10/1/02-
Gregory/ et al.	USAID	Agricultural Biotechnology Support (ABST II) 02-/07	$15,000,000	
Shelton/ Nault and Landers	USDA PMAP	Development and Implementation of Reduced Risk Management for Onions	$185,125	7/1/04 6/30/06
Shelton 6/30/05	NYSDAM	Management of Swede Midge	$32,000	7/1/04-
Shelton Kikkert et al.	USDA PMAP	Development and Implementation of a BMP for Swede Midge	$213,618	7/1/05 6/30/07
Shelton Roush et al.	USAID	Risks and Benefits of Stacked Bt Genes for Crucifers	$364,877	7/1/05 6/30/08
Shelton/ Wang	NYSDAM	Management of Swede Midge 6/30/07	$27,000	7/1/05
Shelton/ Fuchs/Nault	NYFVI	Management of Thrips and IYSV 5/1/09	$125,000	5/1/07
Shelton Kikkert	USDA PMAP	Providing the Research and Education Needs for IPM for Swede Midge	$251,022	7/1/08 6/30/10
Shelton et al	USDA BRAG	Role of natural enemies in resistance evolution	$385,000	9/1/08 8/30/11
Shelton	USDA BRAG	Using resistant insects to study non-target effects for Bt plants	$400,000	9/15/10 9/14/13
Shelton/ Ivy	APHIS 9/1/11	Leek moth	$10,000	9/1/10
Shelton Specialty Crop Block	NY	Improving Mgt and Profit of Sweet Corn	$71,503 9/30/13	9/30/11
Shelton 9/1/15	PMAP	Leek moth management	$196,000	9/1/13-
Shelton Specialty Crop Block	NY	Improving Mgt Leek Moth	$94,553 9/30/15	9/30/13
Shelton/ Coffman	USAID	Feed the Future Biotechnology Bt eggplant	$4,800,000	10/1/15 9/30/18

Shelton/ Evanega	USAID	Feed the Future Biotechnology Bt eggplant	$1,600,000	10/1/18 9/30/19
Shelton present	NYS IPM	Various Projects	$150,000	7/1/79-
Shelton present	Hatch	Various Projects	$995,000	7/1/79-
Shelton present	IR-4	Various Projects	$130,000	7/1/79-
Shelton	NYS Cabbage Growers	Various Projects	$165,000	7/1/90- present
Shelton	NYS Vegetable Growers	Various Projects	$145,000	7/1/90- present
Shelton	NYS Onions	Various Projects	$130,000	7/1/03- present
Shelton present	Industry	Various Projects	$2,350,000	7/1/79-

F. PUBLICATIONS

PUBLICATIONS IN JOURNALS

1. Shelton, A. M., S. J. Long, A.S. Walker, M. Bolton, H. L. Collins, L. M. Johnson and N I. Morrison. 2019. Evaluation of the first open-field release of a genetically engineered, self-limiting agricultural insect and its management potential for crop protection. Proc. Natl. Acad. Sci. USA (in review)
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8. Shelton, A. M. and D. Olmstead. 2011. The changing insect complex in sweet corn and how it affects management. NY Fruit and Vegetable Expo. Syracuse, NY. http://www.hort.cornell.edu/expo/2011proceedings.php
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G. PRESENTATIONS

INVITED UNIVERSITY/INDUSTRY/SCHOOL SEMINARS:

2017 Hobart College Environmental Studies
2017 ISBGMO, Guadalajara, MX
2017 NYSAES Retirees
2016 Cornell University, Department of Entomology
2016 Zhejiang University, Northwest Ag & Forest University, Urumqi Institute, China
2015 Great Lakes Fruit and Vegetable Expo
2015 Entomology Dept., North Carolina State University
2015 Genetic Engineering and Society Program, NC State
2015 Cornell Plant Pathology and Molecular Biology
2015 Oxitec Inc., UK
2014 Entomology Dept., University of Georgia
2014 Corvinus University Budapest, Hungary
2013 Department of Entomology, Indian Agricultural Institute
2013 Biotechnology Symposium (SUNY-EFS)
2013 Montana State University
2012 Cornell Entomology Symposium (poster)
2012 Cornell Entomology Seminar
2011 Cornell Lepidoptera Symposium at BTI
2010 Yale University
2010 Hobart William Smith College, Geneva, NY
2009 AquaClara, Cornell

2009 Hobart and William Smith Colleges, Sociology Dept.
2009 Department of Entomology, Michigan State University
2009 Zhejiang University, Hangzhou, China
2009 Northwest Agricultural University, Xian, China
2009 Guandong Academy of Agricultural Sciences, China
2009 University of the Philippines, Los Banos
2009 University of Illinois Champaigne-Urbana
2008 University of Alberta, Canada
2008 AVRDC, The World Vegetable Center, Tainan, Taiwan
2007 Bio-Protection and Ecology Division, Lincoln University, NZ
2007 Environmental Resource Management Authority, Wellington, NZ
2007 DowAgroSciences, Indianapolis, IN
2007 Hobart and William Smith Colleges (2 seminars, biology and sociology)
2007 Institute of Plant Protection, Prague, Czech Republic
2007 Norman Borlaug Heritage Foundation Science Policy program, Washington DC
2006 Cornell CIIFAD Forum
2006 Entomology Dept. Cornell, NYSAES
2006 NY Academy of Sciences/92nd St YMCA class, NYC
2006 Entomology Dept., University of Idaho
2006 Entomology Dept., Zhejiang University, Hangzhou, China
2006 Entomology Dept., University of the Philippines at Los Banos
2006 Entomology Dept., University of Florida
2005 Entomology Department, University of Wisconsin
2005 European Ph.D. Course in Insect Biotech, University of Basillicata, Italy
2005 Plant Pathology Dept. Cornell, NYSAES
2004 Cornell University, Global Seminar, AgBiotech
2004Cornell University, Soils and Crops, AgBiotech
2004 Finger Lakes Community College
2004 Hobart and William Smith Colleges, Biology and Society
2003 Geneva High School, Lectures on evolution
2002 Hobart and William Smith, Department of Sociology
2002 Cornell University, Food Science, Biotechnology
2001 Department of Entomology, NYSAES
2001 University of Adelaide, Australia
2001 University of Brisbane, Australia
1997 Monsanto, St. Louis, MO
1997 Department of Plant Breeding, Cornell
1997 Ministry of Agriculture, Nicaragua
1995 Department of Entomology, NYSAES
1994 Department of Entomology, Colorado State University
1993 Department of Entomology, Univ. of Massachusetts
1992 Department of Entomology, Cornell.
1992 Instituto Technologico de Monterrey Mexico
1991 Calgene & UC Davis
1991 NSF/USDA/Tuskegee University Workshop on Plant Stress
1991 Department of Plant Breeding, Cornell
1990 Department of Entomology, UC Riverside
1989 Department of Entomology, North Carolina State
1987 Department of Entomology, University of Arizona

1987 Department of Plant Protection, Zamorano, Honduras
1987 Department of Entomology, UC Riverside
1986 Department of Entomology, Wageningen, Holland
1986 Department of Entomology, Michigan State
1983 Entomology Department, University of Massachusetts
1983 Entomology Department, Cornell University
1983 DuPont Biochemicals Department, Wilmington, DE
1983 Department of Entomology, Wageningen, Holland
1980 Vegetable Crops Department, Cornell University
1980 Entomology Department, UC Davis
1979 Entomology Department, University of Florida
1979 Entomology Department, Tifton, Georgia
1979 Entomology Department, Cornell University

NATIONAL AND INTERNATIONAL PRESENTATIONS AT SCIENTIFIC MEETINGS:

2019 International Diamondback Moth Conference, Taiwan. Insecticide resistance management. A.M. Shelton et al
2019 International Society of Biosafety Research (ISBR), Tarragona, Spain. The first field release of a genetically engineered, self-limiting insect in North America and its potential for pest managemen. A. M. Shelton et al.
2019 International Society of Biosafety Research (ISBR), Tarragona, Spain. The Bt eggplant project in Bangladesh: present status, lessons learned and future prospects. A. M. Shelton et al.
2019 University of California, Riverside. "Wedges against global huner in 2050." How Bt brinjal is making a difference in the lives of Bangladeshi farmers, consumers and the environment. A.M. Shelton
2018 ESA National Meeting, Vancouver, CN. Cornell-Oxitec Project: first release of a self-limiting GE insect in North America. A. M. Shelton et al.
2018 First International Congress of Biological Control, Beijing, China. Keynote speaker. Using Bt resistant hosts to confirm the lack of effect on natural enemies by lepidopteran-active Bt proteins. A. M. Shelton et al.
2018 University of California, Davis. The Bt eggplant project in Bangladesh. A. M. Shelton.
2017 ESA North Central Branch, Indianapolis, IN. Integrated management of diamondback moth with natural enemies and Bt broccoli. D. Onstad and A. M. Shelton
2017 ESA National Meeting, Denver, CO. GMO or OMG: Embracing the skeptical movement to help entomology. A. M. Shelton.
2017 ESA National Meeting, Denver, CO. Repelling *Contarinia nasturtii*, aspecialist pest of brassica crops, unisng non-host essential oils. Y. Chen, C. Rodriguez-Saona and A. M. Shelton
2016 International Congress of Entomology Meeting, Orlando FL. Bt eggplant: bold step for Bangladesh and hope for the Philippines. Shelton et al.
2015 ESA Pacific Branch, Coeur d' alene, ID. Exposure to multiple Bt proteins through resistant hosts demonstrates no effects on a suite of their natural enemies. A.M. Shelton et al.
2015 The 12th International Conference on Plant Protection (plenary speaker). 2015. Ptuj, Slovenia. What is environmentally acceptable plant protection? A. M. Shelton

2014 ESA National Meeting, Portland, OR. Politics, money and misinformation derail IPM: The stories of virus-resistant papaya in Hawaii and Bt eggplant in southeast Asia. A. M. Shelton.

2014 ESA National Meeting, Portland, OR. Foliar application of *Steinernema feltiae* for biological control of the leaf-mining leek moth larvae *(Acrolepiopsis assectella)* in *Allium* vegetables: Remedy for NY onions? M. Seto and A. M. Shelton.

2014 ESA National Meeting, Portland, OR. Seasonal occurrence and development of degree-day models for predicting activity of *Acrolepiopsis assectella* (Lepidoptera: Acrolepiidae) in NY onions. M. Seto and A. M. Shelton.

2014 American Chemical Society, San Francisco, CA (1 paper)

2014 ESA Eastern Branch, Williamsburg, VA (4 papers)

2013 ESA National Meeting, Austin, TX. Industry, growers and university cooperate to implement resistance management for diamondback moth. A. M. Shelton.

2013 ESA National Meeting, Austin, TX. It's not all fruit in the Big Apple: Vegetable pest management of onion thrips in onion and cabbage. B. A. Nault and A. M. Shelton.

2013 ESA National Meeting, Austin, TX. Exposure to multiple Bt proteins through resistant hosts demonstrates no effects on a suite of their natural enemies. A. M. Shelton et al.

2013 W-185 Meeting on BioControl, Jackson, WY (2 papers)

2013 ESA Eastern Branch, Lancaster, PA. Sustainable vegetable production: Can we make it work? A. M. Shelton.

2013 Biotechnology Risk Assessment Grants (USDA), Washington, DC (1 poster)

2013 National Agricultural Biotechnology Council, Texas A&M (Invited Presentation)

2013 4Th International Symposium on Biological Control of Arthropods, Pucon, Chile Mar 4-8. (1 paper and symposium organizer)

2012 ESA National Meeting, Knoxville, TN. Misinformation and politics: Bt eggplant. A. M. Shelton and K. E. Hokanson.

2012 ESA National Meeting, Knoxville, TN. Long-term insecticide resistance management for diamondback moth: Dreaming the impossible dream? A. M. Shelton.

2012 ESA National Meeting, Knoxville, TN. Proactive IRM for thrips—a case study of onion thrips in onion. B. A. Nault and A. M. Shelton.

2012 ESA National Meeting, Knoxville, TN. Opportunities and challenges for development and registration of new biotech products for vegetables. A. M. Shelton.

2012 ESA National Meeting, Knoxville, TN. Bt crops expressing Cry1Ac, Cry2Ab and Cry1F do not harm the green lacewing, *Chrysoperla rufilabris.* J-C. Tian, J. Romeis, S. Naranjo, R. L. Hellmich, and A. M. Shelton.

2012 ESA National Meeting, Knoxville, TN. Eliminating host-mediated effects demonstrates that Bt corn expressing Cry1F has no adverse effects on *Cotesia marginiventris.* X-P. Wang, J-C. Tian, J. Romeis, S. Naranjo, R. L. Hellmich, and A. M. Shelton.

2012 ESA National Meeting, Knoxville, TN. Using resistant hosts demonstrates that Bt cotton expressing Cry1Ac and Cry2Ab has no negative effects on *Geocoris punctipes.* Liping Long, J-C. Tian, J. Romeis, S. Naranjo, R. L. Hellmich, and A. M. Shelton.

2012 International Congress of Entomology, Daegu South Korea. (co-organized 2 symposia and presented 2 papers)
2012 Cornell University Conference on Food Biosecurity, Ithaca, NY (1 paper)
2012 First International Congress of Development Studies, Santander, Spain. (1 paper)
2012 Biotechnology Summit, Merida Mexico. (1 paper)
2011 Risk Assessment Training Workshop, Jaipur, India. (2 papers)
2011 ESA National Meeting, Reno, NV. Which traits of cabbage influence host-plant selection by the onion thrips (*Thrips tabaci*)? J. Fail and A. M. Shelton.
2011 ESA National Meeting, Reno, NV. IPM for onion thrips (*Thrips tabaci*) in onion. B. Nault and A. M. Shelton.
2011 ESA National Meeting, Reno, NV. Spatial and temporal insecticide resistance in onion thrips (*Thrips tabaci*) populations in onions. A. M. Shelton and B. Nault.
2011 ESA National Meeting, Reno, NV. Changes in the spatial distribution of onion thrips (*Thrips tabaci*) and iris yellow spot virus in onion fields over time. C. Hsu, C. Hoepting, M. Fuchs, A. M. Shelton and B. Nault.
2011 ESA National Meeting, Reno, NV. Antixenotic resistance of cabbage to onion thrips (*Thrips tabaci* Lindeman). J. Fail, K. R. Patel, M. Deutschlander and A. M. Shelton.
2011 ESA National Meeting, Reno, NV. Selecting test species for early-tier risk assessment studies of insect-resistant transgenic crops. J. Romeis, A. Raybould, F. Bigler, M. P. Candolfi, R. L. Hellmich, J. E. Huesing and A. M. Shelton.
2011 ESA National Meeting, Reno, NV. Combinations of toxins in sprays and plants: Insights on the benefits and problems. A. M. Shelton and J-Z. Zhou.
2011 ESA National Meeting, Reno, NV. Assessments of prey-mediated effects of Bt corn demonstrate no adverse effects of Cry1F on *Coleomegilla maculata.* J-C. Tian, H. L. Collins, J. Romeis, S. Naranjo, R. L. Hellmich and A. M. Shelton.
2011 ESA National Meeting, Reno, NV. Changes in the spatial distribution of onion thrips (*Thrips tabaci* Lindeman) and iris yellow spot virus over time in onion fields. C. L. Hsu, C. Hoepting, M. Fuchs, A. M. Shelton and B. A. Nault.
2011 Entomological Society of Canada, Halifax, NS. (plenary paper)
2010 ESA National Meeting, San Diego, CA. Swede midge: Managing a threat to *Brassica* vegetables in North America. A. M. Shelton and M. Chen.
2010 ESA National Meeting, San Diego, CA. A comparative assessment of the effects of Bt plants and a pyrethroid insecticide on *Coleomegilla maculate* (Coleoptera: Coccinellidae). X-X. Liu, M. Chen and A. M. Shelton.
2010 ESA National Meeting, San Diego, CA. Transcripts of the nicotinic acetylcholine receptor subunit gene *Pxylα6* with premature stop codons are associated with spinosad resistance in diamondback moth, *Plutella xylostella.* F. Rinkevich, J. G. Scott, A. M. Shelton and M. Chen.
2010 ESA National Meeting, San Diego, CA. Onion leaf color effects on attraction to onion thrips (*Thrips tabaci* Lindeman). J. Diaz-Montano, A. M. Shelton, B. A. Nault and J. Fail.
2010 11th Int. Symposium on Biosafety of GMO, Buenos Aires, Argentina. (1 paper)
2010 Cartagena Protocol, Nagoya, Japan. (1 paper)
2010 Society of Environmental Toxicology and Chemistry (SETAC), Portland, OR. (1 paper)
2010 Risk Assessment Training Workshop, Goa, India. (1 paper)
2010 American Chemical Society, San Francisco, CA. (1 paper)

2009 IOBC WPRS, Hungary. (1 paper)
2009 ESA National Meeting, Indianapolis, IN. Transgenic vegetables for control of insects and insect-vectored pathogens. A. M. Shelton, M. Fuchs, and M. Chen.
2009 ESA National Meeting, Indianapolis, IN. Bringing GM technology to developing countries, regulatory concerns with entomology focus: Eggplant in India. A. M. Shelton, K. V. Raman, and V. Vijayaraghavan.
2009 ESA National Meeting, Indianapolis, IN. *Bt* maize expressing Cry3Bb1 does not harm the spider mite, *Tetranychus urticae*, or its ladybird beetle predator, *Stethorus punctillum.* Y-H. Li, J. Romeis, and A. M. Shelton.
2009 ESA National Meeting, Indianapolis, IN. Managing diamondback moth (*Plutella xylostella*) susceptibility to the spinosyns: Lessons learned. J. M. Richardson, J. E. Dripps, L. E. Gomez, J. P. Mueller, B. Braxton, R. B. Lassiter, and A. M. Shelton.
2009 ESA National Meeting, Indianapolis, IN. Onion thrips and iris yellow spot virus interactions in an onion ecosystem. B. A. Nault, C. L. Hsu, E. Smith, A. M. Shelton, M. Fuchs, and C. Hoepting.
2009 ESA National Meeting, Indianapolis, IN. A comparative assessment of the effects of *Bt* plants and a pyrethroid insecticide on the life parameters of a a parasitoid. X-X. Liu, M. Chen, and A. M. Shelton.
2009 ESA National Meeting, Indianapolis, IN. Weed hosts of onion thrips (*Thrips tabaci*) and their role in iris yellow spot virus epidemiology in onion. E. A. Smith, A. DiTommaso, C. L. Hsu, M. Fuchs, A. M. Shelton, and B. A. Nault.
2009 ESA National Meeting, Indianapolis, IN. Characterization of resistance to onion thrips (*Thrips tabaci* Lindeman) and incidence of iris yellow spot virus in onion cultivars. J. Diaz-Montano, B. A. Nault, M. Fuchs, and A. M. Shelton
2009 ESA National Meeting, Indianapolis, IN. Could crop rotation provide good control of swede midge, *Contarinia nasturtii* (Diptera: Cecidomyiidae)? M. Chen and A. M. Shelton.
2009 6th International IPM Conference, Portland, OR. (2 papers)
2009 ESA Pacific Branch Meeting, San Diego, CA. (1 paper)
2008 ESA National Meeting, Reno, NV. Resistance: A never ending story. A. M. Shelton
2008 ESA National Meeting, Reno, NV. Bt plants prove safer to a parasitoid than conventional insecticides. M. Chen and A. M. Shelton.
2008 ESA National Meeting, Reno, NV. Screening for resistance and yield losses caused by onion thrips (*Thrips tabaci* Lindeman) and iris yellow spot virus on onions. J. Diaz-Montano, A. M. Shelton, B. A. Nault, and M. Fuchs.
2008 ESA National Meeting, Reno, NV. Identifying weed hosts for onion thrips (*Thrips tabaci*) and implications for iris yellow spot virus management in onion. E. Smith, A. DiTommaso, M. Fuchs, A. M. Shelton, and B. A. Nault.
2008 ESA National Meeting, Reno, NV. Tracking the spread of iris yellow spot virus (IYSV) in onion fields. C. L. Hsu, C. Hoepting, A. M. Shelton, and B. A. Nault.
2008 International Congress of Entomology, Durban South Africa. (co-organized 1 symposia and presented 3 papers)
2007 ESA National Meeting, San Diego, CA. Trap cropping and biotechnology for insect management: Do they play well together in the sandbox? A. M. Shelton and F. R. Badenes-Perez.
2007 ESA National Meeting, San Diego, CA. Monitoring incidence and spread of iris yellow spot virus (*Tospovirus*) in transplant versus direct-seeded onions. C. L Hsu, D. A. Shah, M. Fuchs, C. Hoepting, A. M. Shelton, and B. A. Nault.

2007 ESA National Meeting, San Diego, CA. Screening for resistance and yield losses caused by onion thrips (*Thrips tabaci* Lindeman) and iris yellow spot virus. J. Diaz-Montano, A. M. Shelton, B. A. Nault and M. Fuchs.

2007 ESA National Meeting, San Diego, CA. Assessing possible sources of iris yellow spot virus (*Tospovirus*) in New York onion (*Allium cepa*) fields. E. Smith, C. Hsu, M. Fuchs, A. M. Shelton, C. Hoepting, and B. A. Nault.

2007 XVI International Plant Protection Conference, Glasgow, UK. (1 paper)

2006 ESA National Meeting, Indianapolis, IN. Vegetables and biotechnology. A. M. Shelton.

2006 ESA National Meeting, Indianapolis, IN. Non-insecticidal approaches to control onion thrips on onions: How far are we? E. Larentzaki and A. M. Shelton.

2006 ESA National Meeting, Indianapolis, IN. Effect of soil type and moisture on adult eclosion of swede midge, *Contarinia nasturtii.* M. Chen, A. M. Shelton, and J-Z. Zhao.

2006 5th International Workshop on Diamondback Moth, Beijing, China (3 papers)

2005 Society for Invertebrate Pathology, Anchorage, AK. Rodrigo et al.

2005 14th National Congress of Applied Entomology, Spain. Rodrigo et al.

2005 ESA National Meeting, Ft. Lauderdale, FL. Monitoring and management of diamondback moth resistance to spinosad, indoxacarb and emamectin benzoate. J-Z. Zhao, H. L. Collins, and A. M. Shelton.

2005 ESA National Meeting, Ft. Lauderdale, FL. The effect of habitat and agricultural practices on onion thrips dynamics in onions. E. Larentzaki, B. A. Nault, and A. M. Shelton.

2005 ESA National Meeting, Ft. Lauderdale, FL. Will dead-end trap crops suppress diamondback populations over time? S. Hatch, A. M. Shelton, J-Z. Zhao, H. L. Collins, M. Cheung, E. D. Earle and J. Cao.

2005 ESA National Meeting, Ft. Lauderdale, FL. Insect pest management in the production of cruciferous crops by small landholders in the Kullu Valley, India. F. R. Badenes-Perez and A. M. Shelton.

2005 ESA National Meeting, Ft. Lauderdale, FL. Patterns of resistance to insecticides in onion thrips in New York. A. M. Shelton, J-Z. Zhao, B. A. Nault, J. Plate, E. Larentzaki, and F. R. Musser.

2005 Cornell University/NYSAES, Plant Pathology Seminar. What would Rachel Carson say about Bt plants?

2005 6th Pacific Rim Conference, Victoria, CN. Bt resistance management: Have we been lucky or smart? (Plenary lecture)

2005 2nd International Symposium on Biological Control of Arthropods, Davos, Switzerland. Co-organizer of session "Compatibility of Insect-Resistant Transgenic Plants with Biological Control"

2005 Ontario Ministry of Agriculture and Food, St. Catherine's, Ontario, CN. Efficacy of insecticides on swede midge. A. M. Shelton, Q-J. Wu, Taylor and Zhao.

2004 ESA National Meeting, Salt Lake City, UT. Swede midge in the US: Preparing to manage an invasive pest. Q-J. Wu, J. R. Kikkert, C. Hoepting, and A. M. Shelton.

2004 ESA National Meeting, Salt Lake City, UT. Can a weed be used to control an insect pest? The case of yellow rocket and the diamondback moth. F. R. Badenes-Perez, A. M. Shelton and B. A. Nault.

2004 ESA National Meeting, Salt Lake City, UT. Label, labels, and more labels for produce. A. M. Shelton and C. Petzoldt. (Also Symposium organizer)

2004 ESA National Meeting, Salt Lake City, UT. Characterization of resistance to *Bacillus thuringiensis* in cabbage looper, *Trichoplusia ni.* P. Wang, J-Z. Zhao, W. Kain, A. M. Shelton, J. Ferre, A. Rodrigo, A. Janmaat and J. Myers.

2004 ESA National Meeting, Salt Lake City, UT. Inheritance of resistance to *Bacillus thuringiensis* in cabbage looper, *Trichoplusia ni.* J-Z. Zhao, P. Wang, W. Kain, A. M. Shelton, A. F. Janmaat and J. Myers.

2004 15th International Plant Protection Congress, Beijing, China. Development and deployment of transgenic crops in pest management. (Plenary Lecture) A. M. Shelton.

2004 15th International Plant Protection Congress, Beijing, China. Experimental assessment of insect adaptation to transgenic plants expressing 2 Bt toxins. J. Zhao et al.

2004 15th International Plant Protection Congress, Beijing, China. Resistance management for DBM in North America. A. M. Shelton

2004 15th International Plant Protection Congress, Beijing, China. Laboratory evaluations of a wild crucifer, *B. vulgaris*, for DBM control. J. Lu et al.

2004 International Congress of Entomology, Brisbane, Australia. Transgenic crops for managing insect pests on vegetable crops. A. M. Shelton and J-Z. Zhao.

2004 International Congress of Entomology, Brisbane Australia. The status and challenges of insecticide resistance in vegetables. A. Shelton and J. Zhao

2004 International Congress of Entomology, Brisbane, Australia. Potential use of trap crops to control DBM in cabbage. F. Badenes-Perez et al.

2004 8th International Symposium on the Biosafety of GMOs, Montpellier, France. Characterization of resistance of Bt Cry1Ac toxin in the cabbage looper. Rodrigo et al.

2004 Agriculture, Society and Biotechnology. Finger Lakes Community College.

2003 Biotechnology and the Poor Conference, Ithaca, NY. Considerations on the use of Bt plants.

2003 ESA National Meeting, Cincinnati, OH. Chemically inducible expression in Bt plants: an alternative resistance management strategy. S. L. Bates, A. M. Shelton et al.

2003 ESA National Meeting, Cincinnati, OH. Resistance management of onion thrips in commercial onion fields in New York. A. M. Shelton et al.

2003 ESA National Meeting, Cincinnati, OH. Optimizing the effectiveness of trap crops for diamondback moth in cabbage. F. R. Badenes-Perez, B. A. Nault and A. M. Shelton.

2003 ESA National Meeting, Cincinnati, OH. Diamondback moth management in cabbage using collards as a trap crop. F. R. Musser, B. A. Nault, J. P. Nyrop and A. M. Shelton.

2003 ESA National Meeting, Cincinnati, OH. Potential of Bt brassica vegetables. A. M. Shelton.

2003 ESA National Meeting, Cincinnati, OH. Diamondback moth in crucifers: Moving forward from a history of successes and failures. F. R. Badenes-Perez, A. M. Shelton and B. A. Nault.

2003 ESA National Meeting, Cincinnati, OH. Experimental assessment on insect adaptation to transgenic plants with stacked Bt genes. J-Z. Zhao, J. Cao, H. L. Collins, S. L. Bates, R. T. Roush, E. D. Earle and A. M. Shelton.

2003 ESA National Meeting, Cincinnati, OH. Co-organizer of Program Symposium: Biotech Vegetables for Insect and Insect-vectored Disease Management.

2003 ESA National Meeting, Cincinnati, OH. Co-organizer of Program Symposium: Trap Cropping-- Using Insect Behavior, Plant Biology and Landscape Management to Control Insect Pests.

2003 4th National Meeting on IPM. Integrating biological control and selective insecticides in a decision making guide for sweet corn. F. Musser and A. M. Shelton.

2003 CAST meeting on Pesticide Resistance. Insecticide resistance in the diamondback moth. A. M. Shelton and J. Z. Zhao

2002 International Meeting on Biological Control, Hawaii. Integration of natural enemies into sweet corn pest management. F. Musser and A. M. Shelton.

2002 Society of Invertebrate Pathology meeting, Brazil. Managing resistance to Bt plants through the use of gene and promoter strategies and field tactics. A. M. Shelton et al.

2002 Society of Invertebrate Pathology meeting, Brazil. Considerations for research in agricultural biotechnology. A. M. Shelton.

2002 ESA National Meeting, Ft. Lauderdale, FL. Will intraguild predation of coccinelids occur in corn? F. Musser and A. M. Shelton.

2002 ESA National Meeting, Ft. Lauderdale, FL. Screening for trap crops for diamondback moth. F. Badenes-Perez, A. M. Shelton and B. A. Nault.

2002 ESA National Meeting, Ft. Lauderdale, FL. Plants expressing 2 Bt toxins delay resistance. J-Z. Zhao, A. M. Shelton et al.

2002 ESA National Meeting, Ft. Lauderdale, FL. A rapid assay for detecting resistance in onion thrips. J. Plate, A. M. Shelton et al.

2002 ESA National Meeting, Ft. Lauderdale, FL. Can we move beyond traditional trap cropping? A. M. Shelton et al.

2001 ESA National Meeting, San Diego, CA. Examination of the F2 screen for rare resistance alleles to Bt toxins in the diamondback moth. A. M. Shelton, J-Z. Zhao, Y-X. Li and H. L. Collins.

2001 ESA National Meeting, San Diego, CA. Impact of alternative food resources on ECB egg predation by generalist predators in sweet corn. F. Musser and A. M. Shelton.

2001 Entomology Society of Canada, Annual Meeting, Niagara Falls, CN. Insecticide resistance management: can we preserve our new technologies? A. M. Shelton. Nordic Countries Lectureship, Helsinki, Finland. Presented 5 days of lectures on Agricultural Biotechnology. A. M. Shelton.

2001 International Course on IPM of broccoli, Celaya, Mexico. Insecticide resistance: how we get it and how to avoid it. A. M. Shelton.

2001 International Conference on the Diamondback Moth, Melbourne, AUS. Plenary Address: Management of diamondback moth: déjà vu all over again. A. M. Shelton.

2000 ESA National Meeting, Montreal, Quebec, CN. Identifying sources and mechanisms of resistance in crucifers for control of cabbage maggot. J. Jyoti, A. M. Shelton and E. D. Earle.

2000 ESA National Meeting, Montreal, Quebec, CN. Different cross-resistance patterns in the diamondback moth resistant to transgenic broccoli expressing Cry1C toxin of *Bacillus thuringiensis*. J-Z. Zhao, A. M. Shelton et al.

2000 ESA National Meeting, Montreal, Quebec, CN. Comparison of *Diadegma insulare* and *Microplitis plutellae* as biological control agents of *Plutella xylostella*. J. Xu, A. M. Shelton and X. Chiang.

2000 ESA National Meeting, Montreal, Quebec, CN. Population trends of adult cabbage maggot in relation to degree-day accumulations in upstate New York. J. Jyoti and A. M. Shelton.

2000 Society for Invertebrate Pathology, Guanajuato, Mexico. Development and characterization of diamondback moth resistance to transgenic broccoli expressing high levels of Cry1C. J. Zhao, A. M. Shelton et al.

2000 Society for Invertebrate Pathology, Guanajuato, Mexico. Development and management of resistance to Bt toxins in the diamondback moth.
A. M. Shelton.

2000 International Congress of Entomology, Brazil. Bt and the transgenic's future in IPM Programs-integration and resistance. A. M. Shelton and J. Zhao.

2000 American University of Beirut Symposium, Lebanon. Harnessing the Power of Biology to Benefit Agriculture and Food Systems in the New Millennium. A. M. Shelton.

1999 Society for Invertebrate Pathology, Irvine, CA. Evolving resistance management strategies for Bt transgenic plants using the crucifer-diamondback moth system. A. M. Shelton et al.

1999 ESA National Meeting, Atlanta. Predation of European corn borer eggs by ladybird beetles in NY. F. Musser and A. M. Shelton.

1999 ESA National Meeting, Atlanta. Inheritance of CryIC resistance in a colony of diamondback moth with high levels of resistance to the CryIC toxin of *Bacillus thuringiensis*. J. Zhao, A. M. Shelton et al.

1999 ESA National Meeting, Atlanta. Development of management practices for onion thrips on cabbages in New York. J. Curtis, T. Greene-Hanford and A. M. Shelton.

1998 Australia Entomology Conference, Brisbane. Survey for resistance to Bt in field populations of diamondback moth. M. Ahmad, J. Tang, A. M. Shelton and R. Roush.

1998 Australia Entomology Conference, Brisbane. Can we manage resistance to Bt-engineered plants? Results of greenhouse and field tests. A. M. Shelton, J. Tang, E. Earle and R. Roush.

1998 Australia Entomology Conference, Brisbane. IPM Labeling: communicating with consumers about pest management. C. Petzoldt and A. Shelton.

1998 ESA National Meeting, Las Vegas. California's outbreak of diamondback moth: its causes and the potential for solutions. A. M. Shelton, F. Sances, J. Hawley, J., Tang, M. Bourne and D. Jungers.

1998 ESA National Meeting, Las Vegas. Susceptibility of diamondback moth to commercial formulations of Bt in Mexico. O. Diaz-Gomez, A. M. Shelton, C. Rodriguez, A. Lagunes.

1998 International Course on Insecticide Resistance Management, Celaya, Mexico. Resistance to Bt and management of resistance to transgenic plants. A. M. Shelton.

1998 ESA Branch Meeting, Honolulu, HI. The diamondback moth outbreak in California cole crops. F. Sances, A. M. Shelton, J. Hawley, J. D. Tang.

1997 ESA National Meeting, Nashville, TN. Efficacy of *Beauvaria bassiana* for control of diamondback moth. A. M. Shelton and J. D. Vandenberg.

1997 ESA National Meeting, Nashville, TN. Contrasting alternate host plant effects on patterns of oviposition preference of *Crocidolomia binotalis*.
R. Smyth, A. Shelton and M.P. Hoffmann.

1997 ESA National Meeting, Nashville, TN. Development of artificial eggs for mass-rearing of *Trichogramma* app. A. M. Shelton, S. Chenus, M. P. Hoffmann, H. G. Craighead and S. Turner.

1997 ESA National Meeting, Nashville, TN. Integrated pest management program for farmers producing sweet onions in Honduras. A. Rueda and A. M. Shelton.

1997 ESA National Meeting, Nashville, TN. Non-woven fiber barriers for control of insect pests. M. P. Hoffmann, J. Beard, A. M. Shelton and P. Swartz.

1997 International Course on Insecticide Resistance Management, Colegio de Postgraduados, Texcoco, Mexico. Resistance to Bt and management of resistance to transgenic plants.

1997 6th European Meeting in the IOBC/WPRS Working Group, Denmark. Autodissemination of *Beauvaria bassiana* for microbial control of the cabbage root fly in sustainable agriculture. R. Meadow, A. M. Shelton and J. D. Vandenberg.

1996 National Forum on Insect Resistance to BT, Bethesda, MD. Management of Plutella xylostella on Bt-transgenic plants- a working model. J.D. Tang, A. M. Shelton, R.T. Roush, E.E. Earle, T.D. Metz, B. M. Mitchell and H.L. Collins.

1996 Society for Invertebrate Pathology, Cordoba, Spain. Beauveria bassiana for control of the diamondback moth, *Plutella xylostella*. J. Vandenberg, M. Ramos, A. Shelton and W. Wilsey.

1996 ESA National Meeting, Louisville, KY. Arthropod predators of *Pieris rapae* in New York cabbage. M. A. Schmaedick and A. M. Shelton.

1996 ESA National Meeting, Louisville, KY. Implications for trap cropping of the effects of plant phenological age on oviposition preference for *Crocidolomia binotalis*. R. Smyth, A. M. Shelton and M.P. Hoffmann.

1996 The Second Pacific Rim Conference on Biotechnology of *Bacillus thuringiensis* and its Impact on the Environment, Changmai, Thailand. Importance of application technology on resistance management. A. M. Shelton and C. J. Perez.

1996 The Third International Workshop on the Management of Diamondback Moth and Other Crucifer Pests, Kuala Lumpar, Malaysia. Biologically-based approaches toward the management of DBM. A. M. Shelton.

1996 National Forum on Insect Resistance to Bt, Bethesda, MD. Management of *Plutella xylostella* on Bt-transgenic plants: a working model. J. D. Tang, A. M. Shelton, R. T. Roush, E. D. Earle, T. D. Metz, B. M. Mitchell, and H. L. Collins.

1996 IBC Conference on Biopesticides and Transgenic Plants, Washington, DC. Managing resistance to Bt transgenic plants: Greenhouse and field tests. A. M. Shelton, J. D. Tang, R.T. Roush and E. D. Earle.

1995 Nordic Assoc. of Agricultural Scientists, Lillehammer, Norway. Integrated Pest Management in field vegetables: current trends and research priorities. A. M. Shelton.

1995 Nordic Assoc. of Agricultural Scientists, Lillehammer, Norway. Bioengineered pathogens for control of pests of cole crops. A. M. Shelton.

1995 ESA National Meeting, Las Vegas, NV. Cornell's WWW site for biological control. C. R. Weeden, A. M. Shelton and M.P. Hoffmann.

1995 ESA National Meeting, Las Vegas, NV. Relationship between LC50 and response of *Plutella xylostella* to field applications of *Bacillus thuringiensis.* C. J. Perez and A. M. Shelton.

1995 Society for Invertebrate Pathology Meeting, Ithaca, NY. Can we manage resistance to *Bacillus thuringiensis*? Lessons learned from the diamondback moth. A. M. Shelton, R. T. Roush, J. D. Tang, C. J. Perez, and E. D. Earle.

1994 ESA Eastern Branch. Publishing in ESA Journals: The author's perspective, or who's in charge here?. A. M. Shelton.

1994 2nd National IPM symposium, Las Vegas, NV. Processing sweet corn IPM Programs in NY. J. J. Knodel, C. H. Petzoldt, M. P. Hoffmann and A. M. Shelton.

1994 Genetics and Plant Molecular Biology Societies of Canada, Edmonton. The role of transgenic plants in insect pest management. A. M. Shelton.

1994 ESA National Meeting, Dallas, TX. Stability, genetics, toxin/spore interaction and biochemical resistance to *Bacillus thuringiensis kurstaki* in *Plutella xylostella*. J. D. Tang, A. M. Shelton, J. Van Rie, W. J. Moar and R. T. Roush.

1994 ESA National Meeting, Dallas, TX. Management of Plutella xylostella on Bt-transgenic plants: Influence of instar, movement and refuge density.
A. M. Shelton, J. D. Tang, R. T. Roush, E. D. Earle, T.D. Metz, B. M. Mitchell and H. L. Collins.

1994 ESA National Meeting, Dallas, TX. Selection of commercially available Trichogrammatid egg parastoids for control of *Plutella xylostella*. L. A. Vasquez and A. M. Shelton.

1994 ESA National Meeting, Dallas, TX. Epigeal arthropod predators in western New York cabbage fields. M. A. Schmaedick, P. C. Schroeder and A. M. Shelton.

1994 ESA National Meeting, Dallas, TX. Biology of *Trichogramma ostriniae*: A candidate for augmentative biological control of European corn borer. M. P. Hoffman, D. L. Walker and A. M. Shelton.

1994 ESA National Meeting, Dallas, TX. Laboratory and field assays of the fungus *Beauveria bassiana* for control of the diamondback moth. J. D. Vanderberg, M. E. Ramos, J. A. Altre, P. C. Schroeder, W. T. Wilsey and A. M. Shelton.

1994 Eighth IUPAC International Congress of Pesticide Chemistry, Washington, D.C. Managing insect resistance to *Bacillus thuringiensis* endotoxins: Can transgenic crops be better than sprays? R. T. Roush, T. D. Metz, J. D. Tang, E. D. Earle, and A. M. Shelton.

1993 ESA Eastern Branch. Symposium organizer, Food Safety, Cosmetic Standards and Public Awareness.

1993 ESA Eastern Branch. Implementation of a pheromone trapping network in the processing sweet corn IPM program in New York. J. Knodel, L. Pedersen, J. Gibbons, M. Orfanedes, M. Hofmann, C. Petzoldt, and A. M. Shelton.

1993 Am. Soc. Plant Physiologists. Transgenic plants expressing Bt toxin are resistant to diamondback moth larvae. T. Metz, A. Shelton, R. Roush and E. Earle.

1993 Society of Insect Pathologists. Receptor binding studies with biotinylated Bt delta-endotoxins. P. Denolf, S. Jansens, S. Van Houdt, A. M. Shelton, J. Van Rie and M. Peferoen.

1993 Crucifer Genetics Workshop, Canada. Resistance to insects. A. M. Shelton and S. D. Eigenbrode.

1993 Crucifer Genetics Workshop, Canada. Transgenic broccoli expressing a Bt ICP: a model system to test resistance management theories. T. Metz, A. M. Shelton, R. Roush and E. Earle.

1993 International Congress of Thysanoptera, Burlington, Vt. Temporal and spatial dynamics of thrips populations in a diverse ecosystem: theory and management.

1993 ESA National Meeting, Indianapolis, IN. Mating disruption of diamondback moth (*Plutella xylostella*) in cabbage fields in NYS. C. Ferguson, P. Schroeder, A. M. Shelton, M. Hoffman, and C. Petzoldt.

1993 ESA National Meeting, Indianapolis, IN. Field evaluations of *Trichogramma brassicae* for control of ECB in sweet corn in New York and Pennsylvania. M. P. Hoffman, A. Shelton, S. J. Fleischer and B. Mertz.

1993 ESA National Meeting, Indianapolis, IN. Can we manage resistance to Bt in diamondback moth? A. M. Shelton, J. D. Tang, R. T. Roush, W. J. Moar, and M. Peferoen.

1993 ESA National Meeting, Indianapolis, IN. Identification of RAPD markers linked with Bt resistance in diamondback moth. J. D. Tang, N. S. Talekar, R. J. Cooley, N. F. Weeden, R. T. Roush, and A. M. Shelton.

1992 XIX International Congress of Entomology, Beijing China. Status of *Bacillus thuringiensis* resistance in diamondback moth in the continental United States. A. M. Shelton.

1992 Global Management of Resistance in the '90s, Abbott Laboratories Conference, Lake Bluff, IL. Effectiveness of Bt on resistant insects. A. M. Shelton.

1992 International Symposium on Bt, Thailand. Bt resistance management.
A. M. Shelton.

1992 ESA National Meeting. Variation in susceptibility to Bacillus thurnigensis by Floridian populations of diamondback moth. A. M. Shelton, J. Tang, C. Perez and W. Wilsey.

1992 ESA National Meeting. Effect of spray-droplet distribution and *B.thuringiensis* efficacy against resistant and susceptible genotypes of diamondback moth. C. Perez and A. M. Shelton.

1991 ESA Southeastern Branch. Variation in susceptibility of 11 diamondback moth populations to Dipel, Javelin and MVP. A. M. Shelton, J. L. Robertson, and S. D. Eigenbrode.

1991 10th Annual Meeting of Am. Soc. of Virology. Field application and evaluation of a genetically-engineered AcMNPV. K. Trotter, A. M. Shelton, P. R. Hughes, and H.A. Wood.

1991 ESA Eastern Branch. Development and management of *Bacillus thuringiesis* resistance in diamondback moth. A. M. Shelton.

1991 ESA National Meeting. Pest problems and solutions-theory versus reality. A. M. Shelton.

1990 ESA National Meeting. Diamondback moth contamination of southern-grown cabbage transplants and potential for insecticide resistance problems. M. K. Kroening and A. M. Shelton.

1990 ESA National Meeting. Role of epicuticular leaf waxes in resistance to diamondback moth in *Brassica oleracea*. S. D. Eigenbrode and A. M. Shelton.

1990 ESA Southeastern Branch. Insect resistance in crucifers. A. M. Shelton, S. D. Eigenbrode, and M. H. Dickson.

1990 ESA Southeastern Branch. Diamondback moth insecticide resistance in North America. A. M. Shelton and J. A. Wyman.

1990 ESA North Central Branch. Insecticide resistance management for the diamondback moth in mid-west cole crop production. J. A. Wyman and A. M. Shelton.

1990 ESA Eastern Branch. Integrated pest management strategies to reduce pesticide inputs in cole crops. A. M. Shelton.

1990 ASHS Colloquium. Managing Pesticide Usage with IPM Strategies. A. M. Shelton.

1990 Second International Workshop on Diamondback Moth and Other Crucifer Insects, Tainan Taiwan. Insecticide resistance in diamondback moth in North America. A. M. Shelton and J. A. Wyman.

1990 Second International Workshop on Diamondback Moth and Other Crucifer Insects, Tainan Taiwan. Resistance to diamondback moth in *Brassica*: Mechanisms and potential for resistant cultivars. S. D. Eigenbrode and A. M. Shelton.

1990 Symposium on Biosafety Results of Field Tests of Genetically Modified Plant and Microorganisms, Kiawah Island, SC. Field release of a genetically engineered viral pesticide. H. A. Wood, A. M. Shelton and P. Hughes.

1990 Fifth Meeting of Eucarpia Working Group on Breeding for Resistance to Insects and Mites (Morges, Switzerland). Extracts of resistant cabbage reduce survivorship of diamondback moth. S. D. Eigenbrode, A. M. Shelton, and M. H. Dickson.

1990 Fifth Meeting of Eucarpia Working Group on Breeding for Resistance to Insects and Mites (Morges, Switzerland). Behavioral basis of resistance to larvae of the diamondback moth in glossy leafed *Brassica*. S. D. Eigenbrode and A. M. Shelton.

1989 ESA Eastern Branch. Management of thrips by habitat manipulation. A. M. Shelton.

1989 ESA Eastern Branch, Monitoring behavior of first instar diamondback moth larvae, *Plutella xylostella* (L.) (Lepidoptera: Plutellidae) on resistant cabbage. S. E. Eigenbrode and A. M. Shelton.

1989 ESA National Meeting. Tactics and strategies for using genetic engineering in insect pest management. A. M. Shelton.

1989 ESA National Meeting. Behavioral basis of resistance to larvae of diamondback moth in glossy leafed *Brassica*. S. D. Eigenbrode and A. M. Shelton.

1988 Pan American School of Agriculture Regional Workshop on IPM in Cabbage (Tegucigalpa, Honduras). Mechanisms of antibiotic resistance to the diamondback moth in cabbage breeding lines. S. D. Eigenbrode, A. M. Shelton, and M. H. Dickson.

1988 ESA Eastern Branch. Organizer of Session: What Every Entomologist Should Know About Presenting A Talk. A. M. Shelton.

1988 ESA Eastern Branch. Locomotory behavior of diamondback moth larvae on resistant cabbage lines. S. D. Eigenbrode and A. M. Shelton.

1988 Host Plant Resistance Workshop, Pacific Grove, CA.

1988 ESA National Meeting. Breeding crucifers resistant to foliage feeding insects. A. M. Shelton, M. H. Dickson, and S. D. Eigenbrode.

1988 ESA National Meeting. Mechanisms of resistance to diamondback moth in cabbage. S. D. Eigenbrode and A. M. Shelton.

1988 ESA National Meeting. Conference, Managing vegetable pests: Present constraints and future possibilities. A. M. Shelton.
1988 XVIII International Congress of Entomology, Vancouver, Canada. Using information on habitat to help assess arthropod densities. A. M. Shelton.
1988 National Symposium on IPM, Moderator.
1987 ESA Eastern Branch. Resistance in cabbage to foliage feeding insects. A. M. Shelton and M. H. Dickson.
1987 ESA National Meeting. Using ELISA to estimate field dose/response relationships for a granulosis virus of imported cabbageworm. S. E. Webb and A. M. Shelton.
1986 ESA Eastern Branch. Age-related differences in the progress of a viral epidemic in field populations of imported cabbageworm, *Artogeia rapae* (L.) (Lepidoptera: Pieridae). S. E. Webb and A. M. Shelton.
1986 ESA National Meeting. Case history: Influence of habitat on the pest status and management of thrips on vegetable crops in New York State. A. M. Shelton.
1986 ESA National Meeting. Effect of larval age on viral disease progress in field populations of the imported cabbageworm. S. E. Webb and A. M. Shelton.
1986 Ecological Society of America. Response of late instar *Trichoplusia ni* and *Artogeia rapae* larvae to gradients of temperature and cabbage leaf age. C. W. Hoy and A. M. Shelton.
1985 ESA National Meeting. Workshop: IPM on New York Cabbage. A. M. Shelton.
1985 ESA National Meeting. Monitoring field trials of *Pieris rapae* granulosis virus: ELISA vs. rearing larvae to assess infection. S. E. Webb, D. Gonsalves, A. M. Shelton, and R. R. Granados.
1984 ESA National Meeting. Practical sampling strategies for some commercial vegetable crops. A. M. Shelton, J. P. Nyrop, and C. W. Hoy.
1983 Brighton (England) Conference. Management of insect pests on processing cabbage in New York State. A. M. Shelton and J. T. Andaloro.
1982 ESA Eastern Branch, Onion thrips (Thysanoptera: Thripidae) damage and contamination in sauerkraut. A. M. Shelton, J. R. Stamer, and J. T. Andaloro.
1982 ESA Eastern Branch, Effectiveness of various insecticide application methods for control of lepidopterous pests on cabbage in New York. J. T. Andaloro, A. M. Shelton, and C. W. Hoy.
1982 ESA National Meeting. Variable intensity sampling: A new technique for cabbage pest management. C. W. Hoy, C. Jennison, A. M. Shelton, and J. T. Andaloro.
1982 ESA National Meeting. Informal Vegetable Symposium, A. M. Shelton and M. K. Sears, co-organizers.
1981 ESA Eastern Branch. Effectiveness of various insecticide application methods for control of Lepidopterous pests on cabbage in New York. J. T. Andaloro, A. M. Shelton, and C. W. Hoy.
1981 ESA Eastern Branch. Effects of Lepidopterous larval populations on processed cabbage grades in New York. A. M. Shelton and J. T. Andaloro.
1981 ESA National Meeting. Action thresholds for Lepidoptera on fresh market and processing cabbage in New York. A. M. Shelton, J. T. Andaloro and J. Barnard.
1981 ESA National Meeting. The use of pheromone traps for monitoring

diamondback populations in commercial cabbage. P. B. Baker, A. M. Shelton, and J. T. Andaloro.

1980 ESA Northeast Branch. Use of *A. rapae* egg counts in predicting larval populations for cabbage pest management. J. T. Andaloro, A. M. Shelton, and P. B. Baker.

1978 ESA National Meeting. Cultural control of the potato tuberworm A. M. Shelton and J. A. Wyman.

1978 ESA Pacific Branch. Irrigation practices for control of potato tuberworm. A. M. Shelton and J. A. Wyman.

STATE & NATIONAL GROWER, AND INDUSTRY PRESENTATIONS (SELECTED): In addition to the talks listed below I normally give about 10 ad hoc grower talks per year. Beginning in 2000, I have given an average of 5 talks per years on agricultural biotechnology to various audiences (Cornell tours, Rotary Clubs, Schools, etc.).

2017 Ag In-Service training for CCE. Invasive Insects
2016 Ag In-Service training for CCE, Cornell/NYSAES
2015 NYS Fruit and Vegetable Conference, Syracuse (3 talks)
2014 NYS Fruit and Vegetable Conference, Syracuse (1 talk)
2013 NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2012 NYS Fruit and Vegetable Conference, Syracuse (3 talks)
2011 NYS Fruit and Vegetable Conference, Syracuse (3 talks)
2010 NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2009 NYS Fruit and Vegetable Conference, Syracuse (3 talks)
2008 NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2007 NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2006 NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2005NYS Fruit and Vegetable Conference, Syracuse (2 talks)
2003 4-H Club Ithaca, Ag Biotechnology
2003 NEON Organic, Penn Yan
2003 State/EPA Region II Training Session Cornell BCERF Program. Risks and benefits of pest management strategies
2000 Bejo field days
2000 Industry Working Group on Resistance Management
1998 California Workshop on Diamondback Moth Outbreak
1998 Bejo Field days
1990 National Kraut Packers Association
1989 EPA/ IR-4 Minor Use Workshop
1989 Celeryville, Ohio Muck Crops School
1988 Northeast Aerial Applicators Conference
1987 National Kraut Packers Association
1985 Michigan State IPM Workshop
1981 Mid-Atlantic Vegetable Workers Conference

INTERNATIONAL GROWER/INDUSTRY PRESENTATIONS (SELECTED):
2014 Ontario Fruit and Vegetable Conference, Niagara CN
2004 Ontario Fruit and Vegetable Conference, St. Catherines, Canada
2002 Ontario Fruit and Vegetable Conference, St. Catherines, Canada
2000 Ontario-New York Cabbage Meeting, Niagra Falls, Canada

2000 Diamondback Moth Workshop, Celaya, Mexico
1999 Control of Diamondback Moth, Celaya, Mexico
1998 Diamondback Moth Workshop, Adelaide, Australia
1998 Diamondback Moth Workshop, Texcoco, Mexico
1997 Insecticide Resistance Workshop, Managua, Nicaragua
1995 Control of Diamondback moth, Celaya, Mexico
1994 CIIFAD representative for vegetable production in Indonesia
1993 CIIFAD representative for vegetable protection in Zimbabwe
1992 Diplomado en las Produccion de Hortalizas, Queretaro, Mexico
1989 Ontario Province (Canada) Horticultural Show
1988 IPM Program, Zamorano, Honduras
1988 Symposium of Cole Crop Pests, Celaya, Mexico
1987 Provincial Horticultural Meetings, Montreal, Canada
1987 IPM Program, Zamorano, Honduras

PARTIAL LIST OF CIVIC PRESENTATIONS: In addition to the talks listed below I normally give about 5 ad hoc talks per years on agricultural biotechnology to various audiences (Cornell tours, Rotary Clubs, Schools, etc.).

2014 The City Club of Ithaca, Ithaca, NY May 13, 2014
2014 Kendal Ithaca on GM crop
2011 Geneva Science Project for Summer School
2001 Rochester Garden Club
1999 Geneva Rotary. Transgenic plants and their future
2000 Hobart Environmental Science Course

H. OTHER INFORMATION:

Civic:

Board of Directors Smith Opera House, Geneva, NY, 2017-present
Hobart College Assistant Crew Coach- 2002 to 2005
Geneva Board of Education Facilities Committee 1999
Geneva Board of Education Member 1993- 1998
Geneva Educational Advisory Council (co-president) 1992-3
Geneva Schools Special Education Program (advisor)- 1983-5
Geneva Little League (coach) 1987-1990
Hobart & William Smith Head Crew Coach 1986-1987
Geneva Concerts (treasurer, vice-president, president) 1984-1993
Geneva Cub Scout (den leader) -1983
Geneva YMCA t-ball (coach)-1983-4