

PROGRAM

Sunday Evening, 5 November 2006

Registration:	5:00 pm to 7:00 pm	Location: Convention Registration Desk
Set Up Poster:	1:00 pm to 5:00 pm	Location: Lake
8:00-10:00	US/Canada Methyl Bromide Working Group	Location: Cape Canaveral/Volusia

Monday Morning, 6 November 2006

6:30 am	Registration:	Location: Convention Registration Desk
7:00 am	Set Up Poster Presentations:	Location: Lake
7:00 am	Coffee: Sponsor:	Location: Lake

8:00 am	PLENARY SESSION: Welcome, ODP, CUE, MBTOC, Fumigation Review	Location: Orange
Moderator:	Reggie Brown	
8:00-8:15	Welcome Reggie Brown, MBAO, Chief Executive Officer	
8:15-8:35	Jim Butler (1)-Methyl Bromide in the Atmosphere: A Scientific Overview and Update.	
8:35-8:55	Marta Montoro (2)- CUE Update.	
8:55-9:15	Debbie Edwards (3)- Cluster Fumigation Review.	
9:15-9:35	Paul Gosselin (4)- DPR Updates.	
9:35-9:40	Gary Obenauf-Housekeeping	

9:40 am – 10:30 am	Sponsor: Metam Sodium Task Force	Break	Location: Lake
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10:30 am – 12:00 noon		Location: Orange
	PLENARY SESSION – Regulatory, National Strategy	
Moderator:	Reggie Brown	
10:30-10:50	James Green (5)– USDA CSREES Methyl Bromide Transition Grant Program, 2000-2007.	
10:50-11:40	Ken Vick (6)– 308 Review Update.	
11:40-12:00	Dan Botts (7)– Montreal Protocol Meeting New Delhi Summary.	

12:00 until 1:00 pm	LUNCH BREAK
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Monday Afternoon, 6 November 2006

Registration:

Location: Convention Registration Desk

<p>Preplant Session 1: Submitted Papers Loc: Orange Mulch Film & Emission Reduction Moderator: Scott Yates 1:00-1:20 Grey, Timothy L. (8)- Herbicide Dissipation From Low Density Polyethylene Mulch Utilizing Analytical Techniques. 1:20-1:40 Gao, Suduan (9)- Evaluation of Water Seals on Emission Reduction of 1,3-Dichloropropene and Chloropicrin. 1:40-2:00 Shem-Tov, Shachar (10)- Strawberry Yield and Weed Control a with Alternative Fumigants Applied in Combination with Metam Under Various Tarps. 2:00-2:20 Vaculin, Paul (11)- Effect of Mulch Type on Metam Potassium Efficacy, Alone and in Combinations. 2:20-2:40 Fennimore, Steven A. (12)- Retention of Broadcast-Applied Fumigants with Impermeable Fumigant Film In Strawberry. 2:40-3:00 Discussion Session</p>	<p>Postharvest Session I: Submitted Papers Loc: Osceola IPM/Systems Approach as Alternatives to Methyl Bromide Moderator: Shlomo Navarro 1:00-1:20 Johnson, Judy (72)-Development of a Systems Approach for U.S. Cherries Exported to Japan. 1:20-1:40 Siegel, Joel P. (73)-Post Harvest Use of Biological and Chemical Agents to Control Navel Orangeworm. 1:40-2:00 Subramanyan, Bhadriraju (74)-Methods for Optimizing Structural Heat Treatments: A Case Study. 2:00-2:20 Discussion Session</p>
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2:30 pm – 3:00 pm

Break

Location: Lake

<p>Preplant Session II: Submitted Papers Loc: Orange Fumigant Modeling/Analysis Moderator: Joe Noling 3:30-3:50 Arnold, Frank (13)- Measuring New Fumigants with Draeger-Tubes®. 3:50-4:10 Yates, Scott R. (14)- Developing a Simple, Low-Cost Approach for Evaluating Emission Reduction Methods. 4:10-4:30 Hyatt, Charles (15)- <i>SOILFUME</i>: A Graphical User Interface for Determining Fumigant Best Management Practices. 4:30-4:50 Wang, Dong (16)- <i>DRIPFUME</i>: A Visual Program for Simulating Fumigant Emission and Movement in Soils. 4:50-5:10 Sullivan, David A. (17)- Updates in FEMS Model to More Accurately Represent Exposures From Fumigants. 5:10-5:30 Trout, Tom (18)- Fumigant Use in California – Response to the Phase-Out. 5:30-5:50 Discussion Session</p>	<p>Postharvest Session II: Submitted Papers Loc: Osceola Non-Chemical Alternatives Moderator: Judy Johnson 3:30-3:50 Navarro, Shlomo (75)- Novel Non-Chemical MB Alternatives for Postharvest Treatments. 3:50-4:10 Ferizli, Ahmet G. (76)- Mortality of All Life Stages of saw/toothed Grain Beetle Held Under Vacuum. 4:10-4:30 Marcotte, Michelle (77)- Ghana – Irradiation as a Quarantine Method for Export Development. 4:30-4:50 Mitcham, Elizabeth (78)- Insect Control and Walnut Quality Following Large-Scale Industrial Radio Frequency Treatments. 4:50-5:10 Discussion Session</p>
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5:30 pm – 6:30 pm

POSTER SESSION

Moderator: Colwell Cook

6:30 pm – 8:00 pm

RECEPTION

Location: Lake

Location: Lake

Tuesday Morning, 7 November 2006, Concurrent Sessions

7:00 am Registration: **Location: Convention Registration Desk**
7:00 am Coffee: **Location: Lake**

<p>Preplant Session III: Submitted Papers Loc: Orange Non-Chemical Alternatives Moderator: Dan Chellemi 8:00-8:20 McSorley, Robert (19)- Solarization as an Alternative to Methyl Bromide in Florida Floriculture. 8:20-8:40 Theis, Judy A. (20)- Resistance of Watermelon Germplasm to Root-Knot Nematodes. 8:40-9:00 Wang, K.-H. (21)- Effect of Solarization and Cover Cropping on Pests, Beneficials and Pepper Yield. 9:00-9:20 Westphal, Andreas (22)- Use of Cover Crops for Management of Root Knot Nematodes in Cucurbits. 9:20-9:40 Bernal, R. F. (23)- Effect of Soil Solarization Combined with Some Amendments and The Evaluation of Chemical Products for the Control of <i>Meloidogyne incognita</i> (chitwood) Kofoid and White. 9:40-10:00 Discussion Session</p>	<p>Postharvest Session III: Submitted Papers Loc: Osceola Chemical Alternatives – Non-Fumigant Moderator: Colwell Cook 8:00-8:20 Arthur, Frank (79)- Susceptibility of Different Life Stages of <i>Tribolium</i> spp. To Pyrethrin Aerosol. 8:20-8:40 Kostyukovsky, Moshe (80)- Novaluron – a New IGR for Stored Product Pest Control. 8:40-9:00 Kostyukovsky, Moshe (81)- Phytochemicals as Fumigants and Repellents Against Stored Product Insects. 9:00-4:45 Cook, Colwell & Bill Chism Fumigant Management Plan (FMP). 9:45-10:00 Discussion Session</p>
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10:00 am – 10:30 am **Break** **Location: Lake**

<p>Preplant Session IV: Submitted Papers Loc: Orange Acrolein Moderator: Stanley Culpepper 10:30-10:50 Simmons, Lee J. (24)- An Overview of Acrolein (2-Propenal) Research Conducted at Auburn University. 10:50-11:10 Fennimore, Steven A. (25)- Evaluation of Acrolein for Weed Control in Tomato. 11:10-11:30 Belcher, Jason (26)- Drip-Applications of Acrolein in Tomato. 11:30-11:50 Welker, Robert (27), Acrolein and DMDS as methyl Bromide Alternatives in Tomatoes. 11:50-12:00 Discussion Session</p>	<p>Postharvest Session IV: Submitted Papers Loc: Osceola Structural Fumigation Moderator: Pamela Peckman 10:30-10:50 Mueller, John (82)- Six Years of Field Experience Using SF on Grain and Food Processing Facilities. 10:50-11:10 Hulasare, Raj (83)- Comparison of Heat Treatment Methods in Structures. 11:10-11:30 Hosoda, Ed (84)- Technology Transfer of Profume™ Gas Fumigant. 11:30-11:50 Maier, Dirk (85)- Development of Comprehensive Structural Fumigation Models. 11:50-12:00 Discussion Session</p>
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12:00 noon – 1:00 pm **Lunch**

Tuesday Afternoon, 7 November 2006, Concurrent Sessions

Registration:

Location: Convention Registration Desk

Preplant Session V: Submitted Papers IPM/Transition Moderator: Hussein Ajwa 1:00-1:20 McKenry, Michael (28)- Replacing Stone Fruit Orchards Without Soil Fumigation. 1:20-1:40 Thomas, John E. (29)- Use of Wavelength Selective Plastic Mulches in Florida Tomato Production. 1:40-2:00 Webster, Theodore M. (30)- Nutsedge Ecology in Plasticulture Affects Weed Management. 2:00-2:20 Klose, Susanne (31)- Nitrogen Dynamics in Soils of Alternative Fumigation Systems. 2:20-2:40 Noling, J. W. (32)- Methyl Bromide Transition Strategy for Florida Fruit & Vegetable Crops. 2:40-3:00 Discussion Session		Loc: Orange	Postharvest Session V: Submitted Papers Controlled Atmosphere Temperature Treatment System (CATTS) -- 1 Moderator: David Obenland 1:00-1:20 Neven, Lisa (86)- Controlled Atmosphere Temperature Treatment System (CATTS): A History and Summary of Treatments of Apples and Stone Fruit. 1:20-1:40 Yahia, Elhadi M. (87)- Development of Quarantine Systems for Tropical Fruits Using Controlled Atmospheres. 1:40-2:00 Mitcham, Elizabeth (88)- Controlled Atmosphere/Temperature Treatments to Control Codling Moths in Bartlett Pears. 2:00-2:20 Brown, Gordon (89)- Maintaining Apple Fruit Quality with CATTS Disinfestation Treatment. 2:20-2:40 Lurie, Susan (90)- Control of Mediterranean Fruit Fly on Citrus with CATTS Technology. 2:40-3:00 Leach, Peter (91)- Non-Chemical Treatments for Control of Fruit Fly in Tropical Fruit. 3:00-3:20 Discussion Session		Loc: Osceola
3:00 pm – 3:30 pm		Break	Location: Lake		
Preplant Session VI: Submitted Papers Area Wide methyl Bromide Alternatives Program Moderator: Sally Schneider 3:30-3:35 Vick, Kenneth (33)- Overview of Area-wide Pest Management Project for Methyl Bromide Alternatives. 3:35-3:55 Chellemi, Daniel (34)- South Atlantic Component. 3:55-4:15 Browne, Greg (35)- Pacific Component. 4:15-5:30 Discussion Session		Loc: Orange	Postharvest Session VI: Submitted Papers Controlled Atmosphere Temperature Treatment System (CATTS) -- 2 Moderator: Lisa Neven 3:30-3:50 Obenland, David (92)- Fruit Quality Issues Associated with Development of a Commercial CATTS Treatment. 3:50-4:10 Lawrence, Frank (93)- FoodPro VHT/DHT & CATTS Post Harvest Alternative Treatment to Methyl Bromide. 4:10-4:30 Black, Dan (94)- Development of CATTS Technology: A Controls Perspective. 4:30-4:50 Vroom, Nico (95)- Improved Treatment Times for Controlled Atmospheres in Stored Product Pest Control. 4:50-5:10 Van Sickle, Gary W. (96)- CATTS: An Industry Perspective. 5:10-5:30 Discussion Session		Loc: Osceola
5:30 pm – 7:30 pm		CSREES Grant Recipients Moderator: James Green		Location: Orange	
8:00 pm-10:00 pm		Fumigant Management Plan (FMP). Moderators: Colwell Cook & Bill Chism		Location: Orange	

Wednesday Morning, 8 November 2006, Concurrent Sessions

7:00 am	Registration:	Location: Convention Registration Desk
7:00 am	Coffee:	Location: Lake
Preplant Session VII: Submitted Papers		Loc: Orange
Ornamentals, Tree Crop and Forest Tree Nurseries		
Moderator:	Mike McKenry	
8:00-8:20	Ajwa, Husein (36) - <i>Ranunculus</i> Production with Methyl bromide Alternatives.	
8:20-8:40	Roskopf, Erin N. (37) - Evaluation of MIDAS™ For Production of Ornamental Cockscomb (<i>Celosia argentea</i>) in Florida.	
8:40-9:00	Klose, Susanne (38) - Methyl bromide Alternatives for California-Grown Calla Lilies.	
9:00-9:20	Lampinen, Bruce D. (39) - Alternative Pre-Plant Soil Fumigation Treatments for Deciduous Tree Crops.	
9:20-9:40	Starkey, Tom (40) - Tree Seedling Quality and Weed Control with BASAMID, MBR and Methyl Iodide.	
9:40-10:00	Discussion Session	
10:00 am – 10:30 am		Break
		Location: Lake
Preplant Session VIII: Submitted Papers		Loc: Orange
Furfural		
Moderator	Robert Welker	
10:30-10:50	Rodriguez-Kabana, R. (41) - The Nematicidal and Herbicidal Activities of Furfural: a Review.	
10:50-11:10	Buntting, E. (42) - The Biological Efficacy of Furfural on Turf in the South African Environment.	
11:10-11:30	Hensley, Jerry (43) - Development of Multigard™ Protect (Furfural) for Nematode Control in Turf.	
11:30-11:50	Steyn, A. (44) - The Efficacy of Crop Guard® (furfural a.i.) as a Nematicide on <i>Meloidogyne</i> sp.	
11:50-12:10	Discussion Session	
Postharvest Session VII: Submitted Papers		Loc: Osceola
Alternative Fumigants		
Moderator:	Chris Reichmuth	
8:00-8:20	De Lima, C.P.F. (97) - Fumigation of Table Grapes with Ethyl Formate Against Quarantine Pests.	
8:20-8:40	Griffith, Tom (98) - Propylene Oxide, A Versatile Fumigant, A Safe Insecticide.	
8:40-9:00	Isikber, Ali A. (99) - Potential Use of Ozone at High Concentration for Rapid insect and Microbial Disinfestation of Durable Commodities.	
9:00-9:20	Discussion Session	
Postharvest Session VIII: Submitted Papers		Loc: Osceola
Chemical Alternatives – Phosphine/Fumigant Analysis		
Moderator:	Bob Williams	
10:30-10:50	Glennon, Dennis (100) - Approved Infrared Fumigation Monitors for USDA/APHIS/PPQ and Dow AgroSciences.	
10:50-11:10	Ferizli, Ahmet G. (101) - Time/Dose Mortality of Low Level Phosphine to Almond Moth.	
11:10-11:30	Emekci, Mevlut (102) - Efficacy of Phosphine as an Alternative to Mebr Against Dried Fruit Beetle.	
11:30-11:50	Discussion Session	

Wednesday Afternoon, 8 November 2006, Concurrent Sessions

Registration:

Location: Convention Registration Desk

<p>Preplant Session IX: Submitted Papers Loc: Orange Fumigant Efficacy/Emission Control Moderator: Steve Fennimore 1:00-1:20 Sances, Frank V. (45)- Symmetry®; a New Technology for Improved Fumigant Application and Worker Safety. 1:20-1:40 Noling, J. W. (46)- Fumigant Synergies; The Importance of Chloropicrin. 1:40-2:00 Noling, J. W. (47)- Identifying Causes of Pest Control Inconsistency with Soil Fumigation in Florida Strawberry. 2:00-2:20 Sullivan, David (48)- Recent Advancements in Ambient Monitoring Methods to Support Buffer Zone Assessments for Agricultural Fumigants. 2:20-2:40 Ha, Winsook (49)- Plastic Film Permeability to Soil Fumigants. 2:40-3:00 Discussion Session</p>	<p>Postharvest Session IX: Submitted Papers Loc: Osceola Chemical Alternatives – Sulfuryl Fluoride and Combinations Moderator: Mike Hurley 1:00-1:20 Muhareb, Jeannette (103)- Evaluation of Combining Sulfuryl Fluoride, Propylene Oxide & CO₂ for Stored Product Insects. 1:20-1:40 Campbell, James F. (104)- Evaluation of Two Fumigants for Rapid Treatment of Packaged Seeds. 1:40-2:00 Bookout, Anne (105)- Commercial Use of Profume® on Stored Cocoa Beans. 2:00-2:20 Klementz, Dagmar (106)- Sulfuryl Difluoride to Control Toward Immature Life Stages of <i>Ephesia elutella</i> (Hübner). 2:20-2:40 Prabhakaran, Suresh (107)- Commercialization and Adoption of Profume® Gas Fumigant. 2:40-3:00 Discussion Session</p>
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3:00 pm – 3:30 pm

Break

Location: Lake

<p>Preplant Session X: Submitted Papers Loc: Orange Biorationals Moderator: Nancy Kokalis-Burelle 3:30-3:50 Becker, J. O. (50)- Improved Plant Protection against Root-Knot Nematodes by Combining Biorational Approaches. 3:50-4:10 Driver, J. G. (51)- Effects of Seed treatments to Manage Nematodes as an Alternative to Methyl Bromide on Cantaloupe. 4:10-4:30 Cerintas, Ramazan (52)- The Bio-herbicidal Effects of Daphne (<i>Laurus nobilis</i> L.) and Some of Its Important Components on the Germination of Some Weeds and Agronomic Crops. 4:30-4:50 Mazzola, Mark (53)- Mechanisms and Efficacy of Brassicaceae Seed Meal-Induced Disease Control. 4:50-5:10 Monfort, W. S. (54)- <i>Brassica</i> Species: Biocontrol for Soilborne Pathogens in Georgia Vegetable Plasticulture. 5:10-5:30 Monfort, W. S. (55)- <i>Brassica</i> Species: Biocontrol for Root-Knot Nematodes in Georgia Vegetable Plasticulture. 5:30-5:45 Discussion Session</p>	<p>Postharvest Session X: Submitted Papers Loc: Osceola Methyl Bromide/Plant-Derived Chemicals Moderator: Jim Leesch 3:30-3:50 Schilling, M.W. (108)- Methyl Bromide Use to Combat mite Infestation in Dry-cured Ham During Production. 3:50-4:10 Reichmuth, Ch. (109)- Side Effects of Methyl Bromide on Pharmaceuticals After Fumigation in Containers. 4:10-4:30 Saxena, Ramesh C. (110)- Practical Applications of Neem Against Pests of Stored Products. 4:30-4:50 Ndalut, P. (111)- Insecticidal Activity of Acetyl Moraldehyde and Agauriasterone from <i>Agauria salicifolia</i>. 4:50-5:00 Discussion Session</p>
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5:30 pm – 7:00 pm

RECEPTION

Location: Lake

Thursday Morning, 9 November 2006, Concurrent Sessions

7:00 am	Registration:		Location: Convention Registration Desk
7:00 am	Coffee:		Location: Lake
Preplant Session XI: Submitted Papers		Loc: Orange	Preplant Session XII: Submitted Papers
Strawberry Alternatives			Other Crop Alternatives
Moderator:	Dan LeGard		Moderator: Mike Aerts
8:00-8:20	Ajwa, Hussein (56)- Efficacy of Two Formulations of MIDAS® for Strawberry Production.		8:00-8:20 Louws, Frank J. (61)- Efficacy of Methyl Bromide Alternatives for Weed and Verticillium Management in Tomatoes.
8:20-8:40	Shem-Tov, Sachar (57)- Strawberry Production and Weed Control in Soils Treated with BASAMID and Chloropicrin.		8:20-8:40 Walker, Robert H. (62)- Preplant Bermudagrass Control in Warm-Season Sod Without Methyl Bromide.
8:40-9:00	López-Aranda, José M. (58)- Strawberry Nurseries in Spain: Alternatives to MB, 2005 Results.		8:40-9:00 Highland, H. Brett (63)- Muscodor Biofumigant – An Update on a Promising Methyl Bromide Alternative from Agraquest, Inc.
9:00-9:20	López-Aranda, José M. (59)- Strawberry Production in Spain: Alternatives to MB, 2006 Results.		9:00-9:20 Browne, Greg T. (64)- Prunus Replant Disease in California and Its Management without Methyl Bromide.
9:20-9:40	Horner, Ian J. (60)- Summary of Alternative Fumigant Trials in New Zealand Strawberries, 1998-2006.		9:20-9:40 Culpepper, Stanley S. (65)- Methyl Bromide Alternatives Being Identified in Georgia.
9:40-10:00	Discussion Session		9:40-10:00 Discussion Session
10:00 am – 10:20 am		Break	Location: Lake
Preplant Session XIII: Submitted Papers		Loc: Orange	Preplant & Postharvest
Corporate New Product Presentations			Fumigant Management Plan (FMP).
Moderator:	Daniel A. Botts		Moderators: Colwell Cook & Bill Chism
10:20-10:40	Rodriguez-Kabana, R. (66)- Inorganic Azides as Alternatives to Methyl Bromide in the Fumigation of Soils: a Review.		10:30-12:00
10:40-11:00	Richards, Douglas J. (67)- Update on Sodium Azide-Based Pesticides.		
11:00-11:20	Robinson, Philip W. (68)- Dimethyl Disulfide (DMDS) a Methyl Bromide Replacement Candidate.		
11:20-11:40	Lindsay, Bruce (69)- An Alternative to Fumigation of Crops with Methyl Bromide Using Propane.		
11:40-12:00	Leyes, Gregory A. (70)- Nematode Control and Properties of Fosthiazate, a Methyl Bromide Alternative.		
12:00-12:20	Warren, Morris (71)- Propylene Oxide, A Soil Sterilant with Potential as a Methyl Bromide Replacement.		
12:20-12:30	Discussion Session		

The End – Hope to see you next year in San Diego, California!

POSTER PRESENTATIONS

Moderator: Colwell Cook

PREPLANT:

- Kokalis-Burelle, Nancy** (112)- Efficacy of Midas for Control of *Meloidogyne incognita* on *Celosia* in Florida.
Roskopf, Erin (113)- Midas Demonstration Plots in Bell Pepper.
Candole, Byron (114)- Distribution and Efficacy of Methyl Isothiocyanate in Plastic-Mulched Soil Beds.
Johnson, Wiley (115)- Yellow Nutsedge Control with Metham-Sodium in Transplanted Cantaloupe.
Shrestha, Anil (116)- Surface Water Applications for Reducing Emissions from Telone C35: Their Effect on Weeds.
Shrestha, Anil (117)- Weed Species Emergence Patterns under Methyl Bromide and Alternative Fumigants in Fruit Nurseries.
Bogoescu, Marian (118)- Alternatives to Methyl Bromide Fumigation for Tomatoes in Romania Greenhouses.
Gerik, James (119)- Evaluation of Emerging Alternative Chemicals for Control of Pathogens and Weeds.
Gao, Suduan (120)- Soil Fumigation and Surface Seal Methods on 1,3-dichloropropene and Chloropicrin emissions in an Orchard Replant Field Trial.
Gao, Suduan (121)- Trapping Efficiency of Cis-1,3-dichloropropene by XAD-4 Sorbent Tubes for Emission Studies.
Kobara, Yuso (150)- Simple Estimation Method for Fumigants Gas Permeation Rates by Cup Method.
Arnold, Frank (122)- Detection Tubes for New Fumigants.
Chellemi, Dan (123)- Telone C-35 Demonstration Trial in Eggplant.
Qin, Ruijun (124)- The Effect of Ammonium Thiosulfate on Reducing Fumigant Concentration under Tarp.
McDonald, Jason (125)- Reduction of Fumigant Emissions Using Chemical and Organic Amendments.
Hanson, Brad (126)- Evaluation of Reduced Methyl Bromide Rates in Perennial Crop Field Nurseries.
Grey, Timothy (127)- Residual Herbicide Dissipation for Bare-soil Verses Soil under Low Density Polyethylene Mulch.
Webster, Theodore (128)- Glyphosate Hinders Nutsedge Tuber Production.
Webster, Theodore (129)- Lack of Nutsedge Efficacy when Halosulfuron is applied through Drip Irrigation.
Little, Daniel (130)- Herbicide Alternatives to Methyl Bromide in Conifer Seedling Production.
Little, Daniel (131)- Herbicide Alternatives to Methyl Bromide in Herbaceous Perennial Production.
Sams, Carl (132)- Mustard Meal Biofumigation of Soils in Strawberry Production.
Sams, Carl (133)- Biofumigation of Tomato Plots Alters Soil Microbial Community Structure.
Fravel, Deborah (134)- Tomato Phenolics Altered by Biocontrol and Plant Pathogenic *Fusarium oxysporum*.
Tursun, Nihat (135)- Bio-Herbicidal Effects of Thyme Essential Oil and Carvacrol on Different Weed and Crop Species.
Nyczepir, Andrew P. (136)- Evaluation of Tall Fescue for Resistance to Root-Knot Nematode in Peach.
Becker, Ole (137)- Bioassays for Detection and Analysis of *Prunus* Replant Suppression.
Ryan, Robert (138)- Sterigas & Cosmic: Update on Proposed New Fumigants.
Roberts, Daniel (151)- Use of Natural Products for Suppression of Soilborne Diseases of Cucumber.

POSTHARVEST:

- Ryan, Robert** (139)- Vapormate: A Niche Methyl Bromide Alternative.
Toews, Michael (140)- Efficacy of Aerosols for Managing the Red Flour Beetle.

Nikpay, Amin (141)-	Laboratory Studies Evaluating the Insecticidal Efficacy of Six Diatomaceous Earth Formulations, as Structural Treatments, on Galvanized Steel Surfaces, Against Two Species of Coleoptera.
Simpson, Tiffanie (142)-	Silicone-Based Surface to Control Pests on Harvested California Cherries.
Griffith, Tom (143)-	The New Propylene Oxide Improves Pre and Post Harvest Uses.
Isikber, Ali (144)-	Propylene Oxide: A Potential Quarantine and Pre-Shipment Fumigant for Disinfestation of Nuts.
Park, Min-Goo (145)-	HCN with Forced Aeration in Imported Oranges.
Mack, Ron (146)-	Alternative Quarantine Treatments for Hitching Snails.
Tubajika, Kayimbi M. (147)-	Efficacy of Sulfuryl Fluoride and Methyl Bromide against Wood-Inhabiting Fungi.
Winborn, Ian (148)-	The CPHST Quarantine Treatment Portal.
Levang-Brilz, Nichole (149)-	Irradiation as a Component of a Proposed IPPC Phytosanitary Treatment Manual.
Maier, Dirk (152)-	Ozonation as a Non-chemical Stored Product Protection.