

**PROGRAM**

**Monday Evening, 1 November 2010**

<b>2:00pm to 4:00pm</b>	<b>CPC</b>	<b>Location: Dade</b>
<b>5:00 pm to 7:00 pm</b>	<b>Registration:</b>	<b>Location: Convention Registration Desk</b>
<b>1:00 pm to 5:00 pm</b>	<b>Set Up Poster:</b>	<b>Location: Lake</b>

**Tuesday Morning, 2 November 2010**

<b>6:30 am</b>	<b>Registration:</b>	<b>Location: Convention Registration Desk</b>
<b>7:00 am</b>	<b>Set Up Poster Presentations:</b>	<b>Location: Lake</b>
<b>7:00 am</b>	<b>Coffee:</b>	<b>Location: Lake</b>

<b>8:00 am</b>	<b>PLENARY SESSION: Welcome, ODP, CUE, Fumigation Review</b>	<b>Location: Orange</b>
<b>Moderator:</b>	<b>Reggie Brown</b>	
<b>8:00-8:15</b>	<b>Welcome Reggie Brown, MBAO, Chief Executive Officer</b>	
<b>8:15-8:45</b>	<b>James Butler -Methyl Bromide in the Atmosphere: A Scientific Overview and Update.</b>	
<b>8:45-9:15</b>	<b>Linda Rutsch - CUE, Carry Over Stocks</b>	
<b>9:15-9:45</b>	<b>Rick Keigwin – Fumigation Regulations/New Labels</b>	
<b>9:45-10:00</b>	<b>Gary Obenauf-Housekeeping</b>	

<b>10:00 am – 10:30 am</b>	<b>Break</b>	<b>Location: Lake</b>
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<b>10:30 am – 12:00 noon</b>	<b>Location: Orange</b>
<b>PLENARY SESSION – Regulatory, National Strategy</b>	
<b>Moderator:</b>	<b>Reggie Brown</b>
<b>10:30-11:00</b>	<b>Randy Segawa - DPR /VOCs, Fumigants, etc.</b>
<b>11:00-11:20</b>	<b>Alan Green – APHIS QPS Use of Methyl Bromide</b>
<b>11:20-11:40</b>	<b>Ron Mack – Activities of the International Forestry Quarantine Research Group in Relation to the IPPC</b>
<b>11:40-12:00</b>	<b>Kitty Cardwell – NIFA Methyl Bromide Transition Integrated Grants Program</b>

<b>12:00 until 1:00 pm</b>	<b>LUNCH BREAK</b>
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**Tuesday Afternoon, 2 November 2010**

**Registration:**

**Location: Convention Registration Desk**

<p><b>Preplant Session 1: Submitted Papers</b> <span style="float: right;"><b>Loc: Orange</b></span>  <b>Paladin®</b>  <b>Moderator: Andrew MacRae</b>  <b>1:00-1:20 McKown, Clem</b> (1) – Paladin® - Dimethyl Disulfide as a Replacement Soil Fumigant for Methyl Bromide.  <b>1:20-1:40 Owens, Clay</b> (2) – Paladin® U. S. Registration and UPI Paladin® Soil Fumigation Program.  <b>1:40-2:00 McAvoy, Theodore</b> (3) – Retention and Efficacy of Drip Applied Dimethyl Disulfide under VIF and TIF Mulches.  <b>2:00-2:20 Othman, Mona</b> (4) – Dimethyl Disulfide Plus Chloropicrin as a Methyl Bromide Alternative for Strawberry Production.  <b>2:20-2:40 Cabrera, J. Alfonsos</b> (5) – Factors Affecting the Nematicides Activity of Dimethyl Disulfide.  <b>2:40-3:00 Discussion Session</b></p>	<p><b>Postharvest Session I: Submitted Papers</b> <span style="float: right;"><b>Loc: Osceola</b></span>  <b>NonChemical/Systems</b>  <b>Moderator: Pamela Peckman</b>  <b>1:00-1:20 Schilling, Wes</b> (50)-Controlled Atmosphere Treatments to Control Arthropod Pests of American Dry Cured Hams.  <b>1:20-1:40 Johnson, Judy</b> (51) – Development of Radio Frequency Treatments for Dried Pluses.  <b>1:40-2:00 Burkes, Charles</b> (52) – Mating Disruption for Navel Orangeworm in Central California Year 3.  <b>2:00-2:20 Siegel, Joel</b> (53) – Problems Implementing a Systems Approach for Navel Orangeworm in California.  <b>2:20-3:00 Discussion Session</b></p>
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**2:30 pm – 3:00 pm**

**Break**

**Location: Lake**

<p><b>Preplant Session II: Submitted Papers</b> <span style="float: right;"><b>Loc: Orange</b></span>  <b>Paladin® &amp; Iodomethane</b>  <b>Moderator: Erin Rosskopf</b>  <b>3:30-3:50 Freeman, Josh</b> (6) – Retention and Efficacy of Dimethyl Disulfide Under Virtually and Totally Impermeable Films.  <b>3:50-4:10 Spadafora, V. J.</b> (7) – Iodomethane (Midas®) Soil Fumigant Update – 2010.  <b>4:10-4:30 Poss, Andrew J.</b> (8) – MeI/HFC-245fa Azetrope: a Drop in Replacement for MeBr.  <b>4:30-4:50 McAvoy, Theodore</b> (9) – Retention and Efficacy if Methyl Iodide Under Virtually and Totally Impermeable Film.  <b>4:50-5:00 Discussion Session</b></p>	<p><b>Postharvest Session II: EPA Session</b> <span style="float: right;"><b>Loc: Osceola</b></span>  <b>Sulfuryl Fluoride, Biology/Modeling</b>  <b>Moderator: Joel Siegel</b>  <b>3:30-3:50 Marcotte, Michelle</b> (91) – MBTOC Views, Research Needs and Myths.  <b>3:50-4:10 Walse, Spencer</b> (54) – Mapping Sulfuryl Fluoride Quarantine Control of <i>Amyelois transitells</i> Using Multivariate Modeling.  <b>4:10-4:30 Emekci, Mevlut</b> (55) – The Efficacy of Sulfuryl Fluoride Against Egg Stage of the Dried Fruit Beetle  <b>4:30-4:50 Ferizli, Guray</b> (56) – Does Sulfuryl Fluoride and Heat Combination Overcome the Egg Weakness of Almond Moth?  <b>4:30-5:00 Discussion Session</b></p>
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**5:30 pm – 6:30 pm**

**POSTER SESSION**

**Location: Lake**

**Moderator: Robert Burchard**

**6:30 pm – 8:00 pm**

**RECEPTION**

**Location: Lake**

**Wednesday Morning, 3 November 2010, Concurrent Sessions**

<b>7:00 am</b>	<b>Registration:</b>	<b>Location: Convention Registration Desk</b>
<b>7:00 am</b>	<b>Coffee:</b>	<b>Location: Lake</b>

<p><b>Preplant Session III: Submitted Papers</b> <span style="float:right"><b>Loc: Orange</b></span></p> <p><b>Furfural &amp; Emission Reduction</b></p> <p><b>Moderator: Suduan Gao</b></p> <p><b>8:00-8:20 Burger, Greg J.</b> (10) – Crop Guard ® as a Nematicide on Food Crops in South Africa.</p> <p><b>8:20-8:40 Hensley, Jerry</b> (11) -- Multiguard Protect ® EC Registration for Nematode Control in Turf.</p> <p><b>8:40-9:00 Gao, Suduan</b> (12) – Evaluation of TIF to Reduce Fumigant Emissions and the Potential to Use Reduced Rates.</p> <p><b>9:00-9:20 Khan, Afiquir</b> (13) – Chloropicrin Emission Reduction by Using Totally Impermeable Film.</p> <p><b>9:20-9:40 Ajwa, H,</b> (14) – Chloropicrin and 1,3-Dichloropropene Emissions Reductions by Using Totally Impermeable Film.</p> <p><b>9:40-10:00 Discussion Session</b></p>	<p><b>Postharvest Session III: Submitted Papers</b> <span style="float:right"><b>Loc: Osceola</b></span></p> <p><b>Quarantine</b></p> <p><b>Moderator: Mike Hennessey</b></p> <p><b>8:00-8:20</b></p> <p><b>8:20-8:40 Thoms, Ellen</b> (57) - Sulfuryl Fluoride as a Quarantine Treatment for Wood Products.</p> <p><b>8:40-9:00 Thoms, Ellen</b> (58) – Sulfuryl Fluoride for Quarantine Treatment of Pinewood Nematode.</p> <p><b>9:00-9:20 Myers, Scott</b> (59) – Development of Regulatory Treatments of European Grapevine Moth, <i>Lobesia botrana</i>.</p> <p><b>9:20-9:40 Glennon, Dennis</b> (90) – Automated Web-Based Infrared Monitoring System for Milling and Quarantine Fumigations.</p> <p><b>9:40-10:00 Discussion Session</b></p>
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**10:00 am – 10:30 am** **Break & Poster Session** **Location: Lake**

<p><b>Preplant Session IV: Submitted Papers</b> <span style="float:right"><b>Loc: Orange</b></span></p> <p><b>Emission Reduction</b></p> <p><b>Moderator: Husein Ajwa</b></p> <p><b>10:30-10:50 Chow, Edgar</b> (15) – TIF Mulch Film – the Leading Fumigant Emission Tool.</p> <p><b>10:50-11:10 Noling, Joseph W.</b> (16) – VIF Mulches, Optimized Irrigation and Tillage Practices for Fumigant Use in Florida Strawberry.</p> <p><b>11:10-11:30 Dew, J. Thurman</b> (17) – Chloropicrin and PCN in UK Soils – Pilot Study 2010.</p> <p><b>11:30-11:50 Smith, Charles</b> (18) – Overview of Recent Fumigant Emissions Research.</p> <p><b>11:50-12:00 Discussion Session</b></p>	<p><b>Open</b> <span style="float:right"><b>Loc: Osceola</b></span></p> <p><b>Quarantine</b></p> <p><b>Moderator: Scott Myers</b></p> <p><b>10:30-10:50 Hennessey, Mike</b> (60) -APHIS-PPQ Alternative Quarantine Treatment Methods Development Progress - 2010.</p> <p><b>10:50-11:10 DeLima, Francis</b> (61) – Ethyl Formate + CO2 Fumigation of Table Grapes for Light Brown Apple Moth.</p> <p><b>11:10-11:30 Flingelli, Gabriele</b> (62) – Phosphine Fumigation of Green and Yellow Kiwifruit for Quarantine.</p> <p><b>11:30-12:00 Discussion Session</b></p>
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**12:00 noon – 1:00 pm** **Lunch**

**Wednesday Afternoon, 3 November 2010, Concurrent Sessions**

**Registration:**

**Location: Convention Registration Desk**

<p><b>Preplant Session V: Submitted Papers</b>  <b>Emission Reduction &amp; Vegetables</b>  <b>Moderator: Joe Noling</b>  <b>1:00-1:20 Triky-Dotan, Shachaf</b> (19) – Dissipation of Soil Fumigants Following Repeated Applications.  <b>1:20-1:40 Stanghellini, Mike</b> (20) – A Comprehensive Review of Chloropicrin Field Volatility Studies.  <b>1:40-2:00 Qian, Yaorong</b> (21) – The Permeability of Tarps and the Potential Influencing Factors.  <b>2:00-2:20 Sullivan, David</b> (22) - Recent Progress Made by Applicators in Reducing Airborne Flux of Metam-Sodium: A Case Study.  <b>2:20-2:40 Shennan, Carol</b> (23) – Optimizing Anaerobic Soil Disinfestation for Strawberry Production in California.  <b>2:40-3:00 Discussion Session</b></p>	<p><b>Loc: Orange</b></p>	<p><b>Postharvest Session V: Submitted Papers</b>  <b>Structural</b>  <b>Moderator: Ed Hosoda</b>  <b>1:00-1:20 Campbell, James</b> (63) – Impact of Structural Fumigation on Pest Populations in Food Processing Facilities.  <b>1:20-1:40 Arthur, Frank</b> (64) – Residual Efficacy of Pyrethrin-Methoprene Aerosols on Packaging Surfaces.  <b>1:40-2:00 Holcomb, Mike</b> (65) – An IPM Approach to Methyl Bromide Replacement.  <b>2:00-2:20 Horn, Pedro</b> (66) – Automated Structural Fumigations with Phosphine Using the Horn Diluphos System.  <b>2:20-2:40 Hartzler, Michelle</b> (67) – Methyl Bromide, Sulfuryl Fluoride and Heat: Effectiveness Against Red Flour Beetle.  <b>2:40-3:00 Discussion Session</b></p>	<p><b>Loc: Osceola</b></p>
<p><b>3:00 pm – 3:30 pm</b></p>		<p><b>Break</b></p>	<p><b>Location: Lake</b></p>
<p><b>Preplant Session VI: Submitted Papers</b>  <b>ARS Area-Wide Project -- PWA</b>  <b>Moderator: Greg Browne</b>  <b>3:30-3:50 Klonsky, Karen</b> (24) – Economic Performance of Alternative Preplant Fumigation Treatments for Almonds.  <b>3:50-4:10 Beede, R. H.</b> (25) -- Update on a Preplant Methyl Bromide Alternatives Trial in a Walnut Replant Site.  <b>4:10-4:30 Gao, Suduan</b> (26) – Demonstration of Low Permeability Tarp Technology in Soil Fumigation for Perennials.  <b>4:30-4:50 Hanson, Bradley D.</b> (27) – Pacific Area-wide Program: Current Status of the California Perennial Nursery Sector.  <b>4:50-5:10 Discussion Session</b></p>	<p><b>Loc: Orange</b></p>	<p><b>Postharvest Session VI: Submitted Papers</b>  <b>Sulfuryl Fluoride Application</b>  <b>Moderator: Frank Arthur</b>  <b>3:30-3:50 Hosoda, Ed</b> (68) – Update on the Commercial Acceptance of Profume Gas Fumigation.  <b>3:50-4:10 Williamson, Peter</b> (69) – Profume at Low Rates on Large Grain Bunkers for Complete Control.  <b>4:10-4:30 Thoms, Ellen</b> (70) – First Commercial Sulfuryl Fluoride Cocoa Bean Fumigation in the European Union.  <b>4:30-4:50 Barnekow, David</b> (71) – Profume Gas Fumigant: US and Global Regulatory Update.  <b>4:50-5:10 Discussion Session</b></p>	<p><b>Loc: Osceola</b></p>
<p><b>6:30-8:30 Grafting Discussion</b></p>			<p><b>Loc: Osceola</b></p>

**Thursday Morning, 4 November 2010, Concurrent Sessions**

<b>7:00 am</b>	<b>Registration:</b>		<b>Location: Convention Registration Desk</b>
<b>7:00 am</b>	<b>Coffee:</b>		<b>Location: Lake</b>
<b>Preplant Session VII: Submitted Papers</b>		<b>Loc: Orange</b>	<b>Open</b>
<b>ARS Area-Wide Project -- PWA</b>			<b>Loc: Osceola</b>
<b>Moderator:</b>	<b>Greg Browne</b>		
<b>8:00-8:20</b>	<b>Browne, Greg (28)</b> – Integrated Pre-plant Alternatives to Methyl Bromide for Almonds and Stone Fruits.		
<b>8:20-8:40</b>	<b>Wieland, Jerry (29)</b> – <i>Fusarium</i> and <i>Pythium</i> Populations after Planting in Fumigated Plots.		
<b>8:40-9:00</b>	<b>Walters, Thomas (30)</b> – Methyl Bromide Alternatives Trials in Raspberry Nurseries.		
<b>9:00-9:20</b>	<b>Wang, Dong (31)</b> – Vineyard Replant Update – Pacific Area-wide Program for Methyl Bromide Alternatives.		
<b>9:20-9:40</b>	<b>Fennimore, Steven A. (32)</b> – Facilitating Adoption of Alternatives to Methyl Bromide in California Strawberries.		
<b>9:40-10:00</b>	<b>Discussion Session</b>		
<b>10:00 am – 10:30 am</b>		<b>Break</b>	<b>Location: Lake</b>
<b>Preplant Session VIII: Submitted Papers</b>		<b>Loc: Orange</b>	<b>Open</b>
<b>ARS Area-Wide Project – PWA &amp; SAA</b>			<b>Loc: Osceola</b>
<b>Moderator</b>	<b>Dan Chellemi</b>		
<b>10:30-10:50</b>	<b>Stoddard, Scott (33)</b> – Methyl Bromide Alternatives Show Good Potential for Sweetpotato Hotbeds.		
<b>10:50-11:10</b>	<b>Gerik, James (34)</b> – Calla Lily Production without Methyl Bromide – Pacific Area-wide Program for Methyl Bromide Alternatives.		
<b>11:10-11:30</b>	<b>Chellemi, Dan O. (35)</b> – Monitoring Chloropicrin under Diverse Shank Application Scenarios.		
<b>11:30-11:50</b>	<b>Noling, Joseph W. (36)</b> – USDA ARS South Atlantic Area-wide Program: Large Scale Filed Demonstrations in Florida Strawberry 2009 -2010.		
<b>11:50-12:00</b>	<b>Discussion Session</b>		

**Thursday Afternoon, 4 November 2010, Concurrent Sessions**

**Registration:**

**Location: Convention Registration Desk**

<p><b>Preplant Session IX: Submitted Papers</b>  <b>ARS Area-Wide Project -- SAA</b>  <b>Moderator: Dan Chellemi</b>  <b>1:00-1:20 MacRae, Andrew (37)</b> – Development and Implementation of Fumigant REDs Training for the Southeast US.  <b>1:20-1:40 Quicke, Marie (38)</b> – 2010 Methyl Bromide Alternatives: Forest Tree Nurseries in Southern USA.  <b>1:40-2:00 MacRae, Andrew (39)</b> – Evaluation of all Components of the 3-WAY System for Use in Central Florida Tomato.  <b>2:00-2:20 Welker, Rob (40)</b> – Outreach and New Approaches for Methyl Bromide Alternatives through the USDA Area Wide Project.  <b>2:20-3:00 Discussion Session</b></p>	<p style="text-align: center;"><b>Open</b></p> <p style="text-align: right;"><b>Loc: Osceola</b></p>
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<b>3:00 pm – 3:30 pm</b>	<b>Break</b>	<b>Location: Lake</b>
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<p><b>Preplant Session X: Submitted Papers</b>  <b>Strawberry &amp; Non-Chemical</b>  <b>Moderator: Joe Noling</b>  <b>3:30-3:50 Wang, Dong (41)</b> – Yield and Water Assessment of Strawberry Production in Raised-bed Troughs.  <b>3:50-4:10 Noling, Joseph W. (42)</b> – USDA CREES: Methyl Bromide Transitioning in Florida Strawberry Demo Trials 2008 -2010.  <b>4:10-4:30 Highland, H. Brett (43)</b> – MelonCon WG ® and SoilGard 12 G ® Used in a Program as a Methyl Bromide Alternative.  <b>4:30-4:50 Freeman, Josh (44)</b> – Utilization of Grafted Tomato Seedlings for Bacterial Wilt Resistance in Open Field Production.  <b>4:00-5:30 Discussion Session</b></p>	<p style="text-align: center;"><b>Discussion</b></p> <p style="text-align: center;"><b>Quads</b></p> <p style="text-align: center;"><b>3:30-5:30</b></p> <p style="text-align: center;"><b>Australia, New Zealand, Canada and United States</b></p> <p style="text-align: right;"><b>Loc: Osceola</b></p>
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<b>5:30 pm – 7:00 pm</b>	<b>RECEPTION</b>	<b>Location: Lake</b>
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**Friday Morning, 5 November 2010, Concurrent Sessions**

<b>7:00 am</b>	<b>Registration:</b>	<b>Location: Convention Registration Desk</b>
<b>7:00 am</b>	<b>Coffee:</b>	<b>Location: Lake</b>
<b>Preplant Session XI: Submitted Papers</b>	<b>Loc: Orange</b>	<b>Open</b>
<b>Non-Chemical &amp; Assessment</b>		
<b>Moderator:</b>	<b>Frank Louws</b>	<b>Loc: Osceola</b>
<b>8:00-8:20</b>	<b>Louws, Frank</b> (45) – A Multi-Institutional Public and Private Response to Risk Mitigation Measures for Soil Fumigants.	
<b>8:20-8:40</b>	<b>Noling, Joseph W.</b> (46) – Assessing Crop Impact and Sting Nematode Management in Florida Strawberry.	
<b>8:40-9:00</b>	<b>Anil, Sebastian</b> (47) – Life Cycle Analysis of Pallets and Phytosanitary Treatment Methods.	
<b>9:00-9:20</b>	<b>MacRae, Andrew</b> (48) – Sustainability of Methyl Bromide Alternatives – Squash Double Crop.	
<b>9:20-9:40</b>	<b>Vallad, Gary</b> (49) – Sustainability of Methyl Bromide Alternatives – Tomato and Pepper Initial Crop.	
<b>9:40-10:00</b>	<b>Discussion Session</b>	
<b>9:30 am – 10:00 am</b>	<b>Break</b>	<b>Location: Lake</b>
<b>Open</b>	<b>Open</b>	<b>Loc: Osceola</b>

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

## POSTER PRESENTATIONS

**Moderator: Robert Burchard**

### PostHarvest Quarantine:

- Park, Min-Goo** (72) - Effect of PH<sub>3</sub> + CO<sub>2</sub> Mixture as a Quarantine Fumigant in Cut Flowers.  
**Falco, Joseph** (73) - Large Scale Methyl Bromide Recapture for QPS.  
**Mack, Ron** (74) - Efficacy of Radiofrequency Treatment on Asian Longhorned Beetle (ALB) and Emerald Ashborer (EAB) in Roundwood.  
**Son, Yerim** (75) - A Pilot Study to Apply CATTIS Against the Peach Fruit Moth, *Carposina sasakii*, in Apples.

### PrePlant Berries/Turf:

- Kokalis-Burelle, Nancy** (76) - Grafting for Control of *Meloidogyne incognita* on Bell Pepper, Tomato and Melons.  
**Bausher, Michael** (77) - Performance of Grafted Tomatoes in Open Field Trials at Two Locations in Florida.  
**Fennimore, Steven** (78) - A Strategy to Sustainably Produce Strawberry without Fumigants.  
**Sams, Carl** (79) - Using Mustard Seed Meal to Biofumigate Strawberry Soil.  
**Walters, Thomas** (80) - Top Ten Things to Know About Methyl Bromide: A Raspberry Nursery Survey.  
**Lakshman, Dilip** (81) - Molecular Identification and Fungicide Tolerance of Rhizoctonia from Turfgrass.

### PrePlant Ornamentals:

- Roskopf, Erin** (82) - Evaluation of Alternatives to Methyl Bromide for Ornamental Crop Production in Florida.  
**Roskopf, Erin** (83) - Evaluation of Steam for Nematode and Weed Control in Cut Flower Production in Florida.  
**Roskopf, Erin** (84) - Development of Anaerobic Soil Disinfestation for Florida Vegetable and Flower Production.  
**Hanson, Bradley** (85) - Steam Disinfestation as a Methyl Bromide Alternative in California Cut Flower Nurseries.

### PrePlant Other Crops:

- Dew, Thurman** (86) - Chloropicrin and PCN in UK Soils – Pilot Study 2010.  
**Qin, Ruijun** (87) - Effect of Soil Moisture on Emissions and Behavior of Fumigants in Different Textured Soils.  
**Hewlett, Thomas** (88) - Preparation for Commercial Production of *Pasteuria spp.* to Control Root-Knot Nematode.  
**Driver, Jim** (89) – Evaluation of Non-Fumigant Based and Drip Applied Nematicides to Manage Root-Knot Nematode (*Meloidogyne spp.*) on Yellow Squash.