

**PROGRAM**

**Sunday Evening, 30 October 2005**

<b>2:00-4:00</b>	<b>CPC Meeting</b>	<b>Location: San Diego 1&amp;2</b>
<b>Registration:</b>	<b>5:00 pm to 7:00 pm</b>	<b>Location: South/West Foyer</b>
<b>Set Up Poster:</b>	<b>1:00 pm to 5:00 pm</b>	<b>Location: Ballroom VI-VIII</b>
<b>8:00-10:00</b>	<b>US/Canada Methyl Bromide Working Group</b>	<b>Location: San Diego 1&amp;2</b>

**Monday Morning, 31 October 2005**

<b>6:30 am</b>	<b>Registration:</b>	<b>Location: South/West Foyer</b>
<b>7:00 am</b>	<b>Set Up Poster Presentations:</b>	<b>Location: Ballroom VI-VIII</b>
<b>7:00 am</b>	<b>Coffee: Sponsor:</b>	<b>Location: Ballroom VI-VIII</b>

<b>8:00 am</b>	<b>PLENARY SESSION: Welcome, ODP, CUE, MBTOC, Fumigation Review</b>	<b>Location: Ballroom I-V</b>
<b>Moderator:</b>	<b>Reggie Brown</b>	
<b>8:00-8:15</b>	<b>Welcome Reggie Brown, MBAO, Chief Executive Officer</b>	
<b>8:15-8:35</b>	<b>Jim Butler-Methyl Bromide in the Atmosphere: A Scientific Overview and Update</b>	
<b>8:35-8:55</b>	<b>Hodayah Finman- CUE Allocation/Supplement</b>	
<b>8:55-9:15</b>	<b>Michelle Marcotte - MBTOC Update</b>	
<b>9:15-9:35</b>	<b>Jim Jones- Cluster Fumigation Review</b>	
<b>9:35-9:40</b>	<b>Gary Obenauf-Housekeeping</b>	

<b>9:40 am – 10:30 am</b>	<b>Sponsor: Metam Sodium Task Force</b>	<b>Break</b>	<b>Location: Ballroom VI-VIII</b>
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<b>10:30 am – 12:00 noon</b>		<b>Location: Ballroom I-V</b>
<b>PLENARY SESSION – Regulatory, National Strategy</b>		
<b>Moderator:</b>	<b>Reggie Brown</b>	
<b>10:30-10:50</b>	<b>Tobi Jones – CDPR Update</b>	
<b>10:50-11:40</b>	<b>Randy Segawa (1) – Fumigant Regulatory Requirements</b>	
<b>11:40-12:00</b>	<b>Burleson Smith – National Methyl Bromide Management Strategy</b>	

<b>12:00 until 1:00 pm</b>	<b>LUNCH BREAK</b>
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**Monday Afternoon, 31 October 2005**

**Registration:**

**Location: South/West Foyer**

**1:00 pm – 2:30 pm**

**Location: Ballroom I-V**

**PLENARY SESSION – QPS, Case Studies**

**Moderator: Reggie Brown**

1:00-1:15 **Larry Zettler (2)**– QPS Update

1:15-1:30 **Wally Ewert** – QPS Survey

1:30-1:45 **Michelle Marcotte (3)**– Cocoa Case Study

1:45-2:00 **James Green** – CSREES Research Grants

**2:00-2:30 Discussion**

**2:30 pm – 3:00 pm**

**Break**

**Location: Ballroom VI-VIII**

**Preplant Session I: Submitted Papers**

**Loc: Ballroom I-IV**

**Strawberry Chemical Alternatives**

**Moderator: Tom Trout**

3:00-3:20 **Shem-Tov, S (4)**- Effect of Alternative Tarp and Fumigants Combinations with Metam Sodium on Strawberry Yield.

3:20-3:40 **Lopez-Aranda, J. M. (5)**- Demonstrations on Alternatives to MB for Strawberry in Spain. 2004 – 2005 Results.

3:40-4:00 **Goodhue, Rachael E. (6)**- Strawberry Production Economics: VIF and Drip-Applied 1,3-D and Chloropicrin.

4:00-4:20 **Ajwa, Hussein A. (7)**- Strawberry Yield and Weed Control with Shank and Drip Applied Midas.

4:20-4:40 **Noling, Joseph W. (8)**- Commercial Field Evaluations of Methyl Bromide Alternatives In Florida Strawberry.

4:40-5:00 **Lopez-Aranda, J. M. (9)**- Evaluation of Methyl Bromide Alternatives for Strawberry in Florida and Spain.

**5:00-5:20 Discussion Session**

**Postharvest Session I: Workshop**

**Loc: Ballroom V**

**National Methyl Bromide Management Strategy**

**Moderator: Bill Chism**

3:00-4:20 **Burleson Smith – The Plan to Date**

**4:20-5:00 Discussion Session**

**5:30 pm – 6:30 pm**

**POSTER SESSION**

**Moderator: Alan Dowdy**

**Location: Ballroom VI-VIII**

**6:30 pm – 8:00 pm**

**RECEPTION**

**Location: Ballroom VI-VIII**







**Wednesday Morning, 2 November 2005, Concurrent Sessions**

**7:00 am Registration:** **Location: South/West Foyer**  
**7:00 am Coffee:** **Location: Ballroom VI-VIII**

<p><b>Preplant Session VI: Submitted Papers</b> <span style="float: right;"><b>Loc: Ballroom I-IV</b></span>  <b>New Products (Furfural, Essential Oils)</b>  <b>Moderator: Dan Legard</b>  8:00-8:20 <b>Rodriguez-Kabana, R.</b> (26)-Herbicidal and Nematicidal Properties of Drench Applications of Furfural (2-Furfuraldehyde).  8:20-8:40 <b>Burger, G. J.</b> (27)-An Overview of the Development of Furfural (Crop Guard®) as a Nematicide in South Africa: The Chemistry of Furfural within the Soil and Agricultural Environment.  8:40-9:00 <b>Rodriguez-Kabana, R.</b> (28)-Fungicidal, Herbicidal and Nematicidal Activities of Essential Oils in Slow Release Formulations.  9:00-9:20 <b>Burger, G. J.</b> (29)-An Overview of the Development of Furfural (Crop Guard®) as a Nematicide in South Africa: The Biological Efficacy of Furfural within the Agricultural Environment.  9:20-9:40 <b>Rodriguez-Kabana, R.</b> (30)-Combinations of Furfural (2-Furfuraldehyde) with Metam Na and Dazomet for Weed Control.  <b>9:40-10:00 Discussion Session</b></p>	<p><b>Postharvest Session VI: Submitted Papers</b> <span style="float: right;"><b>Loc: Ballroom V</b></span>  <b>Postharvest Emissions Reductions</b>  <b>Moderator: Alan Dowdy</b>  8:00-8:20 <b>Bair, Jim</b> -Mill Treatments.  8:20-8:40 <b>Richardson, Bob</b> -Sealing Structures.  8:40-9:00 <b>Peckman, Pamela</b> -Alternatives Effectiveness.  9:00-9:20 <b>Beaman, Jeff</b> (76)-New Technologies and Modifications to Existing Methyl Bromide Treatment Schedules.  9:20-9:40 <b>Knapp, Gary</b> (77)-Operational Methyl Bromide Recapture Systems.  <b>9:40-10:00 Discussion Session</b></p>
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**10:00 am – 10:30 am** **Break** **Location: Ballroom VI-VIII**

<b>Preplant Session VII: Submitted Papers</b>		<b>Loc: Ballroom I-IV</b>	<b>Postharvest Session VII: Submitted Papers</b>		<b>Loc: Ballroom V</b>
<b>Regulatory Issues/National Initiatives</b>			<b>Non-Chemical 1: Heat/Vacuum</b>		
<b>Moderator</b>	<b>Jim Gilreath</b>		<b>Moderator:</b>	<b>Bill Chism</b>	
10:20-10:40	<b>Sullivan, David A.</b> (31)-Recent Developments of the FEMS Model to Promote Realistic Buffer Zones for Fumigants.		10:30-10:50	<b>Wang, Shaojin</b> (78)-Large-Scale Radio Frequency Treatments for Insect Control in Walnuts.	
10:40-11:00	<b>Chart, Ian</b> (32)-Metam Sodium and Metam Potassium Regulatory Update.		10:50-11:10	<b>Abaraw, Mimoun</b> (79)-An Introduction to Thermal Remediation from TEMP-AIR: A Patented Process to Eliminate Pests with Dry, Clean Heat – An Effective, Safe, and Economical Alternative to Methyl Bromide.	
11:00-11:20	<b>Norton, Jack A.</b> (33)-A Review of Methyl Bromide Alternatives Evaluated by IR-4.		11:10-11:30	<b>Lindsay, Bruce</b> (80)-Update on Heat Treating Wood Packaging Materials to Comply with ISPM 15.	
11:20-11:40	<b>Mann, R. C.</b> (34)-Evaluating Novel Soil Fumigants for Australian Horticulture.		11:30-11:50	<b>Johnson, Judy</b> (81)-Vacuum Treatments for Tree Nuts.	
11:40-12:00	<b>Ndalut, Paul</b> (124)-Protection of Maize Grains from Weevils in Farmers Granaries in Rural Areas of Kenya by Improved Traditional Practices.		<b>11:30-12:00</b>	<b>Discussion Session</b>	
<b>12:00-12:10</b>	<b>Discussion Session</b>				

**Wednesday Afternoon, 2 November 2005, Concurrent Sessions**

**Registration:**

**Location: South/West Foyer**

<p><b>Preplant Session VIII: Submitted Papers</b>  <b>Emissions Reduction/Efficacy Enhancement</b>  <b>Moderator: Joe Noling</b>                  1:00-1:20 <b>Trout, Tom</b> (35)-Irrigation Practices that Improve Drip Fumigation.                  1:20-1:40 <b>Sullivan, David A.</b> (36)-Results of the USDA Study: Commercialization of Enhanced Water Sealing Methods.                  1:40-2:00 <b>McKenry, Michael</b> (37)-Strategies and Tactics for Fumigating Clay Loam Soils.                  2:00-2:20 <b>Lagunas-Solar, Manuel C.</b> (38)-Thermal Disinfection of Soils with Radiofrequency Power.                  2:20-2:40 <b>Joyce, Peter</b> (39)-Methyl Bromide Scrubber for Elimination of Soil Emissions.                  2:40-3:00 <b>Gilreath, James P.</b> (40)-Equipment Modifications for Successful Applications of Low Fumigant Rates.  <b>3:00-3:15 Discussion Session</b></p>	<p><b>Postharvest Session VIII: Submitted Papers</b>  <b>Chemical Alternatives 5: Unregistered Fumigants</b>  <b>Moderator: Dagmar Klementz</b>                  1:00-1:20 <b>Waterford, Colin</b> (82)-The Status of Ethanedinitrile and Carbonyl Sulfide Registration in Australia.                  1:20-1:40 <b>van S. Graver, Jan</b> (83)- Fumigation of Bulk Stored Wheat with Carbonyl Sulfide.                  1:40-2:00 <b>Ren, YongLin</b> (84)-Development of New Ethyl Formate Formulation for Grain Storage.                  2:00-2:20 <b>Ren, YongLin</b> (85)-Using Liquid Ethyl Formate for Disinfestation of Insect Pests in Farm Bins.                  2:20-2:40 <b>Ren, YongLin</b> (86)-Toxicity of Ethanedinitrile (C<sub>2</sub>N<sub>2</sub>) to Timber Related Insect.  <b>2:40-3:00 Discussion Session</b></p>
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**3:00 pm – 3:30 pm**

**Break**

**Location: Ballroom VI-VIII**

<p><b>Preplant Session IX: Submitted Papers</b>  <b>Nursery &amp; Perennial Crops</b>  <b>Moderator: Steve Fennimore</b>                  3:30-3:50 <b>Schneider, S.</b> (41)-Methyl Bromide Alternatives for Perennial Crop Field Nurseries.                  3:50-4:10 <b>Wang, Dong</b> (42)-Emission and Soil Distribution of Fumigants In Forest Tree Nurseries.                  4:10-4:30 <b>Muckenfuss, Adam</b> (43)-Basamid ® G for Weed Control in Forest Tree Nurseries.                  4:30-4:50 <b>Lampinen, B.</b> (44)-Alternative Pre-Plant Soil Fumigation Treatments for Deciduous Tree Crops.                  4:50-5:10 <b>Schneider, S.</b> (45)-Field Evaluations of Methyl Bromide Alternatives for Vineyard Replant.                  5:10-5:30 <b>Shrestha, Anil</b> (46)-Weed Populations in Nurseries as Affected by Methyl Bromide and Alternative Fumigants.  <b>5:30-5:40 Discussion Session</b></p>	<p><b>Postharvest Session IX: Submitted Papers</b>  <b>Non-Chemical Alternatives 2: Radiation/MSDD/CA</b>  <b>Moderator: Patrick Ducom</b>                  3:30-3:50 <b>Marcotte, Michelle</b> (87)-Hawaii Sweetpotato treatment Led to Regulatory Change.                  3:50-4:10 <b>Lagunas-Solar, Manuel</b> (88)-Update on Metabolic Stress Disinfestation and Disinfection.                  4:10-4:30 <b>Mack, Ron</b> (89)-Evaluation of Non-Thermal Metabolic Stress Disinfestation and Disinfection (MSDD) on Selected Pests of Perishables.                  4:30-4:50 <b>Liu, Young-Biao</b> (90)-Ultra-low Oxygen Treatment for Postharvest Insect Control on Lettuce and Broccoli.  <b>4:50-5:00 Discussion Session</b></p>
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**5:30 pm – 7:00 pm**

**RECEPTION**

**Location: Ballroom VI-VIII**

**Thursday Morning, 3 November 2005, Concurrent Sessions**

<b>7:00 am</b>	<b>Registration:</b>		<b>Location: South/West Foyer</b>
<b>7:00 am</b>	<b>Coffee:</b>		<b>Location: Ballroom VI-VIII</b>
<b>Preplant Session X: Submitted Papers</b>		<b>Loc: Ballroom I-IV</b>	<b>Postharvest Session X: Submitted Papers</b>
<b>IPM Components and Considerations</b>			<b>Loc: Ballroom V</b>
<b>Moderator:</b>	<b>Nancy Kokalis-Burelle</b>		<b>Moderator: Jim Leesch</b>
8:00-8:20	<b>Besri, Mohamed</b> (47)-Current Situation of Tomato Grafting as Alternative to Methyl Bromide for Tomato Production in the Mediterranean Region.		8:00-8:20 <b>Hurley, Mike</b> (91)-Confirmation of Phosphine Schedules and Survival of Three Moth Species on Almonds.
8:20-8:40	<b>Chellemi, Dan O.</b> (48)-Impact of Land Management Practices on Soilborne Pests and Productivity of Tomatoes.		8:20-8:40 <b>Arnold, Frank</b> (92)-Measuring New Fumigants with Dräger-Tubes <sup>®</sup> .
8:40-9:00	<b>Kreger, Robert</b> (49)-Performance of Midas ® 50:50 in the Southeastern US.		8:40-9:00 <b>Griffith, Tom</b> (93)-Propylene Oxide, A Versatile Fumigant, A Safe Insecticide.
9:00-9:20	<b>Shem-Tov, S.</b> (55)-Effect of Band or Bed Top Applied Basamid on Strawberry Weed Control and Yield.		9:00-9:20 <b>Silhacek, Don</b> (94)-The Selection of Germ in Whole Wheat by Neonatal Plodia Larvae for Growth.
9:20-9:40	<b>Noling, Joseph W.</b> (51)-Associations of Soil Factors, Fumigant Efficacy, and Field Distribution of Nematodes.		<b>9:20-10:00 Discussion Session</b>
<b>9:40-10:00</b>	<b>Discussion Session</b>		
<b>10:00 am – 10:20 am</b>		<b>Break</b>	<b>Location: Ballroom VI-VIII</b>
<b>Preplant Session XI: Submitted Papers</b>		<b>Loc: Ballroom I-IV</b>	
<b>Strawberry Chemical Alternatives</b>			
<b>Moderator:</b>	<b>Daniel A. Botts</b>		
10:20-10:40	<b>Walgenbach, Paul</b> (52)-Muscodor: A New Biofumigant as an Alternative to Methyl Bromide.		
10:40-11:00	<b>Ajwa, Hussein A.</b> (53)-Strawberry Yield with Various Rates of Chloropicrin and InLine Applied Under VIF.		
11:00-11:20	<b>Fennimore, Steve</b> (54)-Chloropicrin and InLine Lethal Dose on Nutsedge and Knotweed Under Impermeable Film.		
11:20-11:40	<b>Browne, G</b> (50)-Effects of VIF and Chloropicrin and InLine Rates on Survival of Nematodes and Pathogens in Soils.		
11:40-12:00	<b>Damodaran, Nimmi</b> (56)-Research Trends on Alternatives to Methyl Bromide for Strawberries and Tomatoes.		
12:00-12:20	<b>Lopez-Aranda, J. M.</b> (57)-Alternatives to MB for Strawberry Nurseries in Spain. 2004 Results.		
<b>12:20-12:30</b>	<b>Discussion Session</b>		

*The End – Hope to see you next year in Orlando, Florida!*

## POSTER PRESENTATIONS

**Moderator: Alan Dowdy**

### PREPLANT:

- Ajwa, Husein** (100)- Behavior of MITC in Soil After Application of Metam-Na and Metam-K.  
**Driver, Jim** (101)- On-Farm Fumigation Trials for Strawberries in the Southeast.  
**Warren, Morris** (102)- Versatile Propylene Oxide.  
**Wigley, Simon** (103)- VIF-An Update.  
**Gerik, James** (105)- Drip Applied Alternatives for Floriculture Production.  
**Roskopf, Erin** (106)- Evaluation of AJMC-330 for Production of Ornamental Cockscomb(*Celosia argentea*).  
**Westerdahl, Becky B.** (107)- Management of Root-Knot Nematode on Carrots.  
**Nyczepir, Andrew P.** (108)- Evaluation of Guardian™ Peach Rootstock to the Peach and Pecan Root-Knot Nematodes.  
**Gao, Suduan** (109)- Potential of Using Surface Water Applications to Reduce Fumigation Emissions.  
**Kokalis-Burelle** (110)- Review of the Non-Fumigant Nematicides Oxamyl and Fosthiazate.  
**Mazzola, Mark** (111)- Suppression of Rhizoctonia Root Rot by *Streptomyces* in *Brassica* Seed Meal-Amended Soil.  
**Walgenbach, Paul** (112)- Muscodor: A New Biofumigant as an Alternative to Methyl Bromide.  
**Loper, Joyce** (113)- Genomic Sequence of the Biological Control Agent *Pseudomonas Fluorescens* PF-5.  
**Pinkerton, Jack** (114)- Soil Solarization: A Component in Managing Raspberry Root Rot.  
**Trout, Tom** (127)- Impact of Township Caps on Telone Use in California.

### POSTHARVEST:

- Ren, YoungLin** (115)- International Collaboration on the Use of Alternative Fumigant to Treat Timber for Replacement of Methyl Bromide in Malaysia – Result from EDN (C2N2) Trial.  
**Ren, YoungLin** (116)- Fate of 35S-Labelled COS on Grain and Grain Fraction.  
**Tubajika, Kayimbi M.** (118)- Efficacy of Radio Frequency Against Sapstain and Wood Decay Fungi.  
**Kobara, Yuso** (119)- Estimation of Atmospheric Concentrations of Methyl Bromide Alternatives After a Ban on Methyl Bromide.  
**Ryan, Robert F.** (120)- Vapormate™ Disinfestation of Philippine Export Bananas.  
**Krishna, Hari** (123)- Quarantine and Preshipment Applications Search for MB Alternatives in Fresh Produce.

### Structural:

- Ryan, Robert F.** (121)- Disinfestation of Food Processing Equipment.  
**Arthur, Frank** (122)- Susceptibility of Different Life Stages of *Tribolium* spp. to Pyrethrin Aerosol.