

PROGRAM

Saturday Evening, 30 October 2004

Registration: 5:00 pm to 7:00 pm
Set Up Poster: 1:00 pm to 5:00 pm

Location: Registration Desk 4
Location: Signature 2

Sunday Morning, 31 October 2004

6:30 am Registration:
7:00 am Set Up Poster Presentations:
7:00 am Coffee: Sponsor: Metam Sodium Task Force

Location: Registration Desk 4
Location: Signature 2
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8:00 am PLENARY SESSION: Welcome, ODP, Regulatory
Moderator: Reggie Brown
8:00-8:15 Welcome Reggie Brown, MBO, Chief Executive Officer
8:15-8:35 Shari Yvon-Lewis, Texas A&M - Methyl Bromide in the Atmosphere: A Scientific Overview and Update.
8:35-8:55 Hodayah Finman, EPA – CUE Allocation.
8:55-9:15 Burleson Smith, USDA – Update on QPS.
9:15-9:35 James Nicol, Great Lakes – Methyl Bromide - Supplying the Critical Need.
9:35-10:00 Gary Obenauf-Housekeeping.

Location: Salon 3/4

10:00 am – 10:30 am

Break

Location: Signature 2

10:00 am – 12:00 noon
PLENARY SESSION – National Management Strategy – The New UNEP Mandate

Location: Salon 3/4

Moderator: Reggie Brown
10:30-10:50 Bill Chism, EPA -EPA Involvement with NMS.
10:50-11:10 Burleson Smith, USDA – USDA Involvement with NMS.
11:10-11:20 Dan Botts, FFVA –An Example of Industry Response to Developing a NMS.
11:20-12:00 Discussion

12:00 until 1:00 pm

LUNCH BREAK

Sunday Afternoon, 31 October 2004, Concurrent Sessions

Registration: **Location: Registration Desk 4**

1:00 pm – 2:30 pm **Location: Salon 3/4**

PLENARY SESSION – Fumigant By Stander Risk Assessment

Moderator:

- 1:00-1:15 **Jim Jones, EPA – Introduction to the Comparative Risk Assessment.**
- 1:15-1:35 **Jeff Dawson, EPA – Goals of the EPA Review, SAP Model review.**
- 1:35-1:55 **Richard Reiss, Sciences International – Estimating Fumigant Buffer Zones for Bystanders by Air Dispersion Modeling.**
- 1:55-2:10 **David McAllister, Great lakes Chemical Company – Registrant Perspective.**
- 2:10-2:25 **Scott Yates, USDA-ARS – Alternatives for Risk Mitigation.**
- 2:25 – 2:40 Discussion**

2:40 pm – 3:00 pm **Break** **Location: Signature 2**

Preplant Session I: Submitted Papers **Loc: Salon 3/4**

VIF and Emission Reduction

Moderator: Don Dixon

- 3:00-3:20 **Noling, J. W.** (1)-Use of Virtually Impermeable Plastic Mulches (VIF) in Florida Strawberry.
- 3:20-3:40 **Hamil, J** (2)-Reduced Rates of MBR and C35 Under LDPE and VIF for Control of Soil Pests and Pathogens.
- 3:40-4:00 **Ajwa, Husein** (38)-Strawberry Yield with Chloropicrin and In Line® in Combination with Metam Sodium and VIF.
- 4:00-4:20 **Fennimore, Steven** (4)-Weed Response to Chloropicrin and InLine™ Dose under VIF and Standard Film.
- 4:20-4:40 **Santos, Bielinski** (5)-*Cyperus* Spp.Control with Reduced Methyl Bromide Rates Under VIF in Pepper.
- 4:40-5:00 **Goodhue, Rachael** (99)-Economics of VIF with Inline and PIC EC in Strawberries.
- 5:00-5:15 Discussion Session**

Postharvest Session I: Submitted Papers **Loc: Salon 1/2**

Chemical Alternatives 1: Registered Alternatives

Moderator: Mike Hurley

- 3:00-3:20 **Isikber, A. A.** (52)-Propylene Oxide as a Potential Quarantine Fumigant for Disinfestation of Nuts.
- 3:20-3:40 **Muhareb, Jeannette** (53)-Efficacy and Comparison of Four Fumigants as Replacements for Methyl Bromide.
- 3:40-4:00 **Griffith, Tom** (54)-Propylene Oxide, A Versatile Fumigant, A Safe Pesticide.
- 4:00-4:20 **Muhareb, Jeannette** (55)-Efficacy of Profume™ on Stored Product Insects Under Two Atmospheric Conditions.
- 4:20-5:00 Discussion Session**

5:30 pm – 6:30 pm **POSTER SESSION** **Moderator: Alan Dowdy**

6:30 pm – 8:00 pm **RECEPTION** **Location: Signature 2**

Location: Poolside

Monday Morning, 1 November 2004, Concurrent Sessions

7:00 am Registration: Location: Registration Desk 4
7:00 am Coffee: Location: Signature 2

<p>Preplant Session II: Submitted Papers Loc: Salon 3/4 Tree Crops, Nurseries and Other crops Moderator: Dan Chellimi 8:00-8:20 Gerik, James S. (6)-Soil Fumigation for <i>Liatrix</i> Production. 8:20-8:40 Browne, Greg T (7)-Potential of Chemical and Non Chemical Approaches for Managing Prunus Replant Disease. 8:40-9:00 Schneider, Sally (8)-Vineyard Replant: Performance of Methyl Bromide Alternatives Over Time. 9:00-9:20 Trout, Tom (9)-Economics of Methyl Bromide Alternatives for Orchard Replant in California. 9:20-9:40 McSorley, Robert (10)-Comparison of Alternative Fumigants in Cut Flowers. 9:40-10:00 Discussion Session</p>	<p>Postharvest Session II: Submitted Papers Loc: Salon 1/2 Structural Fumigation Moderator: Colin Waterford 8:00-8:20 Abe, Yutaka (56)-New Fumigants, Ecofume and Ecotwin, to Control Insect Pests in Log. 8:20-8:40 DePalo, Michael (57)-Cylinderized Phosphine Fumigants: Sustainable Alternatives for Stored Product Protection. 8:40-9:00 Horn, Franziskus (58)-Fresh Fruit Fumigation with Phosphine as Alternative for Methyl Bromide. 9:00-9:20 Horn, Pedro (59)-Postharvest Phosphine Fumigation of Nuts Using the Horn Diluphos System (HDS). 9:20-10:00 Discussion Session</p>
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10:00 am – 10:30 am Break Location: Signature 2

<p>Preplant Session III: Submitted Papers Loc: Salon 3/4 Metam Sodium Moderator: Jim Gilreath 10:30-10:50 Candole, Byron (11)-Effects of Mulch Type on the Efficacy of Drip Applied Metam Sodium as a Soil Fumigant. 10:50-11:10 Rodriguez-Kabana, Rodrigo (12)-Combinations of Metam Sodium and Propylene Oxide for Weed Control. 11:10-11:30 Sullivan, David A. (13)-Update on Buffer Zone Assessments for Fumigants Based on the FEMS Model. 11:30-11:50 Rodriguez-Kabana, Rodrigo (14)-Potential Of Combination Treatments of Methyl Disulfide and Metam Sodium for Weed Control. 11:50-12:00 Discussion Session</p>	<p>Postharvest Session III: Submitted Papers Loc: Salon 1/2 Chemical Alternatives 2 – New Fumigants Moderator: Ed Hosoda 10:30-10:50 Waterford, Colin (60)-An Australian Update on Carbonyl Sulfide and Ethyl Formate. 10:50-11:10 Silhacek, Don (61)-Managing Indian Meal Moth Populations by Compromising Larval Growth. 11:10-11:30 van S. Graver, Jan (62)-A New Phosphine Generator from Australia. 11:50-12:00 Discussion Session</p>
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12:00 noon – 1:00 pm Lunch

<p>Preplant Session V: Submitted Papers Loc: Salon 3/4</p> <p>New Products</p> <p>Moderator: Steve Fennimore</p> <p>3:30-3:50 Slevin, Jonathan (20)-Effect of Dazitol™, Methyl Bromide, and Untreated Control on Phytoparasitic Nematodes in Tomatoes.</p> <p>3:50-4:10 Gilreath, James (21)-Effective Rate of Propylene Oxide for Nutsedge Control.</p> <p>4:10-4:30 Warren, Morris (22A)-PROPOZONE™ Soil Fumigant 2004.</p> <p>4:30-4:50 Rodriguez-Kabana, Rodrigo (22)-A Dosimetric Study on the Herbicidal Activity of Acrolein [2-Propenal].</p> <p>4:50-5:10 Belcher, Jason (23)-Acrolein and Propylene Oxide: Alternatives to Methyl Bromide for Weed Control in Turf.</p> <p>5:10-5:30 Discussion Session</p>	<p>Postharvest Session V: Loc: Salon 1/2</p> <p>Symposium on Postharvest Research Status and Future Direction</p> <p>Moderator: Jim Leesch</p> <p>3:30-4:00 Leesch, Jim-A Summary of the Current Status of Methyl Bromide Alternatives in Postharvest Pest Control.</p> <p>4:00-4:15 Industry Member-Failure to Adopt Developed Alternative Techniques for Postharvest Systems.</p> <p>4:15-4:25 Chism, Bill-Gaps in Research and Issues for CUE Applications.</p> <p>4:25-5:30 Discussion Session - Future Directions for Postharvest Research.</p>
<p>5:45 pm – 7:30 pm Location: Salon 3/4</p> <p>Symposium on PrePlant Research Status and Future Direction</p> <p>Moderator: Sally Schneider</p> <p>5:45-6:15 Schneider, Sally-A Summary of the Current Status of Methyl Bromide Alternatives in PrePlant Pest Control.</p> <p>6:15-6:30 Industry Member-Failure to Adopt Developed Alternative Techniques for PrePlant Systems.</p> <p>6:30-6:40 Chism, Bill-Gaps in Research and Issues for CUE Applications.</p> <p>6:40-7:30 Discussion - Future Directions for PrePlant Research.</p>	

Tuesday Morning, 2 November 2004, Concurrent Sessions

7:00 am	Registration:	Location: Registration Desk 4
7:00 am	Coffee:	Location: Signature 2
Preplant Session VI: Submitted Papers	Loc: Salon 3/4	Postharvest Session VI: Submitted Papers
Alternative Chemicals		Loc: Salon 1/2
Moderator: Belinsky Santos		Moderator: Bill Chism
8:00-8:20 Besri, Mohamed (24)-Progress in Phasing Out Methyl Bromide for Tomato Production in Developing and Developed Countries.		8:00-8:20 Campbell, James (67)-Flour Mill Fumigations: Action Thresholds, Efficacy and Rebound.
8:20-8:40 Norton, Jack (25)-IR-4 Methyl Bromide Alternatives Program Update and Review.		8:20-8:40 Reichmuth, Christoph (68)-German Approach of Replacement of MB for Cocoa Disinfestation with Phosphine.
8:40-9:00 Vaculin, Paul D. (26)-Metam and Chloropicrin Combinations as Methyl Bromide/Chloropicrin Alternatives.		8:40-9:00 Yeaman, Herb (69)-Flexibility of ProFume® Gas Fumigant.
9:00-9:20 Desaeger, Johan (27)-Drip Applied Soil Pesticides for Nematode Control in Double-cropped Vegetable Systems		9:00-9:20 Joyce, Peter (70)-Methyl Bromide Scrubbing Technology Development.
9:20-9:40 Safley, Charles (28)-Economic Evaluation of Methyl Bromide Alternatives for Strawberry Production.		9:20-9:40 van S. Graver, Jan (71)-Training as a Means to Reduce Methyl Bromide Emissions During Fumigations Treatments.
9:40-10:00 Discussion Session		9:40-10:00 Discussion Session
10:00 am – 10:30 am	Break	Location: Signature 2
Preplant Session VII: Submitted Papers	Loc: Salon 3/4	Postharvest Session VII: Submitted Papers
Tree Crops, Nursery, and Other Crops, II		Loc: Salon 1/2
Moderator Hussein Ajwa		Moderator: Peter Follett
10:30-10:50 Schneider, Sally (29)-Perennial Crop Nurseries – Performance of Methyl Bromide Alternatives in the Field.		10:30-10:50 Siegel, Joel (72)-Entomopathogenic Nematodes for Control of Overwintering Navel Orangeworm.
10:50-11:10 Lampinen, Bruce (30)-Alternative Pre-Plant Soil Fumigation Treatments for Deciduous Tree Crops.		10:50-11:10 Follett, Peter (73)-Irradiation Replaces Methyl Bromide for Sweetpotatoes Exported from Hawaii.
11:10-11:30 Carey, William (31)-Increasing Fumigant Efficacy with VIF.		11:10-11:30 Johnson, Judy (74)-Non-Chemical Alternatives for Dried Fruits and Nuts: Issues and Opportunities.
11:30-11:50 Elmore, Clyde L. (32)-Three Years of Preplant Shank or Drip Fumigation.		11:30-11:50 Wang, Shaojin (75)-Update on Development of Postharvest Pest Control Treatments for Nuts, Citrus and Tropical Fruits Using RF Energy.
11:50-12:10 Goodhue, Rachael (100)-Economics of Methyl Bromide Use in California Strawberries: CUE Criteria.		11:50-12:00 Discussion Session
12:10-12:30 Discussion Session		

Tuesday Afternoon, 2 November 2003, Concurrent Sessions

Registration:

Location: Registration Desk 4

<p>Preplant Session VIII: Submitted Papers Non-Chemical Alternatives I Moderator: Greg Church 1:00-1:20 Jacobsen, Barry (37)-Mycofumigation and Development of Biorational Mixtures of Volatile Components. 1:20-1:40 McSorley, Robert (33)-Evaluation of Losses to Snapdragon from Soilborne Pests and Diseases. 1:40-2:00 Hafez, Saad L. (34)-Integrated Nonchemical Approach – A Viable Option of Methyl Bromide Alternatives in Lebanon Vegetable Production. 2:00-2:20 Trout, Tom (35)-Adoption of Methyl Bromide Alternatives by California Strawberry Growers. 2:20-2:40 Lopez-Aranda, Jose Manuel (36)-Soil Solarization and Biofumigation Using Sprayable Plastic Polymers for Strawberry Production. 2:40-3:00 Ghini, Raquel (101)-A Decade of Solar Use for Substrate Desinfestation in Brazil. 3:00-3:15 Discussion Session</p>	<p align="center">Loc: Salon 3/4</p>	<p>Postharvest Session VIII: Submitted Papers Location: Salon 1/2 Moderator: 1:00-1:20 1:20-1:40 1:40-2:00 2:00-2:20 2:20-3:00 Discussion Session</p>
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3:00 pm – 3:30 pm

Break

Location: Signature 2

<p>Preplant Session IX: Submitted Papers Non-Chemical Alternatives II Moderator: Joe Noling 3:30-3:50 Wigley, Simon (3)-VIF: A Supplier's View. 3:50-4:10 Cortright, Brian (39)-Comparing Fumigants for Control of <i>Phytophthora capsici</i> in Vegetable Crops. 4:10-4:30 Chellemi, Dan O. (40)-Evaluation of Methyl Bromide Alternatives on Commercial Vegetable Farms. 4:30-4:50 Lopez-Aranda, Jose Manuel (41)-Chemical Alternatives to Methyl Bromide for Strawberry Production in Huelva (SPAIN), 2003/2004 Results. 4:50-5:10 Daugovish, Oleg (42)-Weed Control in Strawberry with Oxyflourfen (Goal®). 5:10-5:20 Discussion Session</p>	<p align="center">Loc: Salon 3/4</p>	<p>Postharvest Session IX: Submitted Papers Location: Salon 1/2 Moderator: 3:30-3:50 3:50-4:10 4:10-4:30 4:30-4:50 4:50-5:00 Discussion Session</p>
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5:30 pm – 7:00 pm

RECEPTION

Location: Poolside

Wednesday Morning, 3 November 2004, Concurrent Sessions

7:00 am	Registration:	Location: Registration Desk 4
7:00 am	Coffee:	Location: Signature 2

<p>Preplant Session X: Submitted Papers Loc: Salon 3/4</p> <p>Non-Chemical Alternatives III</p> <p>Moderator: Erin Rosskopf</p> <p>8:00-8:20 Louws, Frank (43)-Efficacy of Methyl Bromide Alternatives for Verticillium and Weed Management in Tomatoes.</p> <p>8:20-8:40 Smith, Kelly (44)-<i>Pasteuria</i> for Nematode control: Development of a Commercial Production Process.</p> <p>8:40-9:00 Wang, Koon-Hui (45)-Impact of Methyl Bromide on Nematode Communities.</p> <p>9:00-9:20 Theis, Judy (46)-Use of Resistant Bell Peppers to Manage Root-knot Nematodes in a Sub-tropical Environment.</p> <p>9:20-9:40 Minuto, G (47)-Advances in Soil Steam Disinfestation in Italy.</p> <p>9:40-10:00 Discussion Session</p>	<p>Postharvest Session X: Submitted Papers Loc: Salon 1/2</p> <p>Moderator:</p> <p>8:00-8:20</p> <p>8:20-8:40</p> <p>8:40-9:00</p> <p>9:00-9:20</p> <p>9:20-10:00 Discussion Session</p>
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10:00 am – 10:20 am	Break	Location: Signature 2
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<p>Preplant Session XI: Submitted Papers Loc: Salon 3/4</p> <p>New Products</p> <p>Moderator: Nancy Kokalis-Burelle</p> <p>10:20-10:40 Richards, Douglas (48)-SEP™100, A Sodium Azide-Based Broad Spectrum Pesticide.</p> <p>10:40-11:00 Rodriguez-Kabana, Rodrigo (49)-Sodium Azide [SEP™100] for Control of Root-knot Nematode, Weeds, and Soil Borne Disease in Cantaloupe Production.</p> <p>11:00-11:20 Noling, Joseph (50)-New Products for use as Methyl Bromide Alternatives in Tomato.</p> <p>11:20-11:40 Gilreath, James (51)-Purple Nutsedge Control with Iodomethane.</p> <p>11:40-12:00 Tateya, Akio (98)-Control Efficacy to Tobamo-virus of Alternatives to Methyl Bromide.</p> <p>12:00-12:20 Discussion Session</p>	<p>Postharvest Session X: Submitted Papers Loc: Salon 1/2</p> <p>Moderator:</p> <p>10:20-10:40</p> <p>10:40-11:00</p> <p>11:00-11:20</p> <p>11:20-11:40</p> <p>11:40-12:00 Discussion Session</p>
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The End – Hope to see you next year in San Diego, California!

POSTER PRESENTATIONS

Moderator: Alan Dowdy

PREPLANT:

- Martin, Frank** (76) Correlation Between Remote Sensing Data and Strawberry Growth and Yield.
Brito, Janete (77) *Meloidogyne mayaguensis* Reproduction on Resistant Tomato and Pepper.
Dimock, Michael (78) Current Status of Basamid® G in the USA.
Duerksen, Chuck (79) Drip Fumigation with K-Pam HL and Vapam HL.
Gao, Suduan (80) Distribution and Dissipation of 1,3-D and Chloropicrin after Shank and Drip Applications in a Clay Loam Soil.
Dickson, Don (81) *Meloidogyne mayaguensis* a New Plant Nematode Species, Poses Threat for Vegetable Production in Florida.
Shrestha, Anil (82) Effect of Alternative Fumigants on Weed Populations in Nurseries.
Slevin, Jonathan (83) Dazitol™: VS Nematicure; in Fruit Greenhouses; in Control of Oidio Fungus on Lettuce.
Kobara, Yuso (84) Atmospheric 1,3-Dichloropropene in the Kanto Area (Japan) after a Ban on Methyl Bromide.
Gerik, James (85) Soil Fumigation for Freesia Production.
Warren, Morris (86) Propylene Oxide Poster Summary.
Church, Greg (87) Evaluation of DMDS for Production of Ornamental Cockscomb (*Celosia argentea*).
Driver, Jim (88) IPM and Fumigation: Host Resistance to Manage Phytophthora in Peppers.
Louws, Frank (89) Integration of Biological Control for Management of Strawberry Root Rot.
Hewlett, Thomas (96) Production of the Nematode Biocontrol Agent *Pasteuria spp.* the Hard Way.
Ghini, Raquel (102) Use of Sewage Sludge to Induce Soilborne Pathogens.

POSTHARVEST:

- Follett, Peter** (90) A Generic Irradiation Dose for Postharvest Control of Fruit Flies Worldwide.
Obenland, David (91) Sensory Evaluation of Stone Fruit Following Heat/Controlled Atmosphere Treatment.
Joyce, Peter (92) Methyl Bromide Scrubbing Technology Development.
Waterford, Colin (93) Toxicity of Ethanedinitrile (C₂N₂) to Timber or Wood Related Insect Pests.
Waterford, Colin (94) Biosecurity Applications of Ethanedinitrile (C₂N₂) Fumigation.
Armstrong, John (95) MB Concentration, Fumigation Time, and Temperature Effects on Fruit Fly Mortality.
Arthur, Frank (97) Efficacy of Pyrethrin Aerosol in Simulated Field Applications.