

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
Location: Signature 2

8:00 am PLENARY SESSION: Welcome, ODP, Regulatory

Location: Salon 3/4

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 [Burlson 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.

10:00 am – 10:30 am

Break

Location: Signature 2

10:00 am – 12:00 noon

Location: Salon 3/4

PLENARY SESSION – National Management Strategy – The New UNEP Mandate

Moderator: Reggie Brown

10:30-10:50 [Bill Chism, EPA](#) -EPA Involvement with NMS.

10:50-11:10 [Burlson 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:

- 1:00-1:35 [Jim Jones, EPA](#) – Introduction to the Comparative Risk Assessment.
- 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 InLine® 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
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<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	
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Monday Afternoon, 1 November 2004, Concurrent Sessions

Registration:

Location: Registration Desk 4

<p>Preplant Session IV: Submitted Papers Loc: Salon 3/4</p> <p>Alternative Chemicals</p> <p>Moderator: Tom Trout</p> <p>1:00-1:20 Sances, Frank V. (15)-<u>Use of Plug Plants and Ozone Safe Chemical Fumigants as Alternatives to Methyl Bromide on California Strawberries and Other Coastal High-Cash Crops.</u></p> <p>1:20-1:40 Fennimore, Steven (16)-<u>Alternative Fumigants for Strawberry Nursery Production in California: A Summary.</u></p> <p>1:40-2:00 Lopez-Aranda, Jose Manuel (17)-<u>Chemical Alternatives to Methyl bromide for Strawberry Nurseries in Spain, 2003 Results.</u></p> <p>2:00-2:20 Martin, Frank (18)-<u>Correlation Between Remote Sensing Data and Strawberry Growth and Yield.</u></p> <p>2:20-2:40 Waterford, Colin (19)-<u>Ethanedinitrile (C₂N₂) -- A Novel Soil Fumigant for Insect, Nematode, Pathogen and Weed Control.</u></p> <p>2:40-3:00 Discussion Session</p>	<p>Postharvest Session IV: Submitted Papers Loc: Salon 1/2</p> <p>Stewardship & Technology Transfer</p> <p>Moderator: Larry Zettler</p> <p>1:00-1:20 Hosoda, Ed (63)-<u>Practical Observations on the Benefits of ProFume®.</u></p> <p>1:20-1:40 Welker, Jeff (64)-<u>Update on the Development and Commercialization of ProFume® Gas Fumigant as an Alternative to Methyl Bromide.</u></p> <p>1:40-2:00 Coleman, Jay (65)-<u>Field Experience with ProFume® Gas Fumigant.</u></p> <p>2:00-2:20 Williams, Bob (66)-<u>The ProFume® Fumiguide: A New Novel Tool to Manage and Improve Fumigations.</u></p> <p>2:20-3:00 Discussion Session</p>
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3:00 pm – 3:30 pm

Break

Location: Signature 2

<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 Ramsey, Stewart-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>4:25-4:45 Schaub, James-Economic Forces and Progress with Postharvest Methyl Bromide Alternatives</p> <p>4:45-5:30 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 Ramsey, Stewart-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>6:40-7:00 Schaub, James-Economic Forces and Progress with PrePlant Methyl Bromide Alternatives</p> <p>7:00-7:30 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
Alternative Chemicals		
Moderator:	Belinsky Santos	
8:00-8:20	Besri, Mohamed (24) - <u>Progress in Phasing Out Methyl Bromide for Tomato Production in Developing and Developed Countries.</u>	
8:20-8:40	Norton, Jack (25) - <u>IR-4 Methyl Bromide Alternatives Program Update and Review.</u>	
8:40-9:00	Vaculin, Paul D. (26) - <u>Metam and Chloropicrin Combinations as Methyl Bromide/Chloropicrin Alternatives.</u>	
9:00-9:20	Desaeger, Johan (27) - <u>Drip Applied Soil Pesticides for Nematode Control in Double-cropped Vegetable Systems.</u>	
9:20-9:40	Safley, Charles (28) - <u>Economic Evaluation of Methyl Bromide Alternatives for Strawberry Production.</u>	
9:40-10:00	Discussion Session	
Postharvest Session VI: Submitted Papers		Loc: Salon 1/2
Structural Fumigation and Emissions Control		
Moderator:	Bill Chism	
8:00-8:20	Campbell, James (67) - <u>Flour Mill Fumigations: Action Thresholds, Efficacy and Rebound.</u>	
8:20-8:40	Reichmuth, Christoph (68) -German Approach of Replacement of MB for Cocoa Disinfestation with Phosphine.	
8:40-9:00	Yeaman, Herb (69) - <u>Flexibility of ProFume® Gas Fumigant.</u>	
9:00-9:20	Joyce, Peter (70) - <u>Methyl Bromide Scrubbing Technology Development.</u>	
9:20-9:40	van S. Graver, Jan (71) - <u>Training as a Means to Reduce Methyl Bromide Emissions During Fumigations Treatments.</u>	
9:40-10:00	Discussion Session	
10:00 am – 10:30 am		Location: Signature 2
Break		
Preplant Session VII: Submitted Papers		Loc: Salon 3/4
Tree Crops, Nursery, and Other Crops, II		
Moderator	Hussein Ajwa	
10:30-10:50	Schneider, Sally (29) - <u>Perennial Crop Nurseries – Performance of Methyl Bromide Alternatives in the Field.</u>	
10:50-11:10	Lampinen, Bruce (30) - <u>Alternative Pre-Plant Soil Fumigation Treatments for Deciduous Tree Crops.</u>	
11:10-11:30	Carey, William (31) - <u>Increasing Fumigant Efficacy with VIF.</u>	
11:30-11:50	Elmore, Clyde L. (32) - <u>Three Years of Preplant Shank or Drip Fumigation.</u>	
11:50-12:10	Goodhue, Rachael (100) - <u>Economics of Methyl Bromide Use in California Strawberries: CUE Criteria.</u>	
12:10-12:30	Discussion Session	
Postharvest Session VII: Submitted Papers		Loc: Salon 1/2
Non-Chemical Alternatives		
Moderator:	Peter Follett	
10:30-10:50	Siegel, Joel (72) - <u>Entomopathogenic Nematodes for Control of Overwintering Navel Orangeworm.</u>	
10:50-11:10	Follett, Peter (73) - <u>Irradiation Replaces Methyl Bromide for Sweetpotatoes Exported from Hawaii.</u>	
11:10-11:30	Johnson, Judy (74) - <u>Non-Chemical Alternatives for Dried Fruits and Nuts: Issues and Opportunities.</u>	
11:30-11:50	Wang, Shaojin (75) - <u>Update on Development of Postharvest Pest Control Treatments for Nuts, Citrus and Tropical Fruits Using RF Energy.</u>	
11:50-12:00	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
Preplant Session X: Submitted Papers		Loc: Salon 3/4	Postharvest Session X: Submitted Papers
Non-Chemical Alternatives III			Loc: Salon 1/2
Moderator:	Erin Rosskopf		Moderator:
8:00-8:20	Louws, Frank (43)-Efficacy of Methyl Bromide Alternatives for Verticillium and Weed Management in Tomatoes.		8:00-8:20
8:20-8:40	Smith, Kelly (44)-Pasteuria for Nematode control: Development of a Commercial Production Process.		8:20-8:40
8:40-9:00	Wang, Koon-Hui (45)-Impact of Methyl Bromide on Nematode Communities.		8:40-9:00
9:00-9:20	Theis, Judy (46)-Use of Resistant Bell Peppers to Manage Root-knot Nematodes in a Sub-tropical Environment.		9:00-9:20
9:20-9:40	Minuto, G (47)-Advances in Soil Steam Disinfestation in Italy.		9:20-10:00 Discussion Session
9:40-10:00	Discussion Session		
10:00 am – 10:20 am		Break	Location: Signature 2
Preplant Session XI: Submitted Papers		Loc: Salon 3/4	Postharvest Session X: Submitted Papers
New Products			Loc: Salon 1/2
Moderator:	Nancy Kokalis-Burelle		Moderator:
10:20-10:40	Richards, Douglas (48)-SEPTTM100, A Sodium Azide-Based Broad Spectrum Pesticide.		10:20-10:40
10:40-11:00	Rodriguez-Kabana, Rodrigo (49)-Sodium Azide [SEPTTM100] for Control of Root-knot Nematode, Weeds, and Soil Borne Disease in Cantaloupe Production.		10:40-11:00
11:00-11:20	Noling, Joseph (50)-New Products for use as Methyl Bromide Alternatives in Tomato.		11:00-11:20
11:20-11:40	Gilreath, James (51)-Purple Nutsedge Control with Iodomethane.		11:20-11:40
11:40-12:00	Tateya, Akio (98)-Control Efficacy to Tobamo-virus of Alternatives to Methyl Bromide.		11:40-12:00 Discussion Session
12:00-12:20	Discussion Session		

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 mayaguenis* 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.