

PROGRAM

Sunday Evening, 4 November 2001

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

Location: South/West Foyer
Location: Ballroom VI-VIII

Monday Morning, 5 November 2001

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

Location: South/West Foyer
Location: Ballroom VI-VIII
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8:00 am PLENARY SESSION: Welcome
Moderator: David Riggs
8:00-8:15 Welcome David Riggs, MBAO, Chief Executive Officer

Location: Ballroom I-V

8:15-10:00 PLENARY SESSION: Methyl Bromide OPD, Regulatory and Economics Symposium
8:15-8:45 Jim Butler-Methyl Bromide in the Atmosphere: A Scientific Overview and Update
8:45-9:05 Amber Moreen –The Methyl Bromide Critical Use Exemption --An EPA Update
9:05-9:25 Peter Caulkins-Summary June USDA/EPA Methyl Bromide Alternatives Workshop
9:25-9:45 Colin Carter-Economic Impact on California Methyl Bromide Phaseout
9:45-10:00 Gary Obenauf-Housekeeping

10:00 am – 10:30 am Sponsor: Metam Sodium Task Force

Break

Location: Ballroom VI-VIII

10:30 am – 12:30 noon

Location: Ballroom I-V

PLENARY SESSION – Phase Out 50%: Current Industry Impact and Implications and Tomorrow.

Moderator: Dan Botts
10:30-10:50 Chip Hinton-Florida Strawberry
10:50-11:10 Reggie Brown-Florida Vegetables
11:10-11:30 Curt Gaines-California Strawberry Nursery
11:30-11:50 Michael Mellano-California Flowers
11:50-12:10 Paul Niday-TriCal
12:10-12:30 Discussion

12:30 until 1:30 pm

LUNCH BREAK

Monday Afternoon, 5 November 2001, Concurrent Sessions

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| Registration: | | Location: South/West Foyer | |
| Preplant Session: Submitted Papers | | Loc: Ballroom I-IV | |
| Chemical Alternatives-1 | | Postharvest Session: Submitted Papers | |
| Moderator: John Duniway | | Loc: Ballroom V | |
| 1:30-1:50 | Ou, Li-Tse (1)- Dispersion and Emissions of 1,3-D in Florida Field Soil | 1:30-1:50 | Mueller, David (52)-Methyl Bromide Alternatives in Developing Countries |
| 1:50-2:10 | Lamberti, Franco (2)- The EC Formulation of the 1,3 Dichloropropene as an Alternative to Methyl Bromide in the Control of Root-Knot Nematodes | 1:50-1:10 | Fitzpatrick Ken (53)-Methyl Bromide IS the Alternative |
| 2:10-2:30 | Rodriguez-Kabana, Rodrigo (3)-Nematicidal and Herbicidal Properties of Propylene Oxide | 2:10-2:30 | Hurley, Michael (54)-Cooperative Development of a Post Harvest Fumigant – An Example |
| 2:30-2:50 | Norton, Jack (58)-Status of IR-4 Methyl Bromide Alternative Programs for Minor Crops | 2:30-2:50 | Wright, Jane (55)-Update on Ethyl Formate: New Toxicity Data and Application Procedure |
| 2:50-3:00 | Discussion of Problems with Implementation of the Alternatives | 2:50-3:00 | Discussion of Problems with Implementation of the Alternatives |
| 3:00 pm – 3:30 pm Sponsor: Metam Sodium Task Force | | Break | |
| Preplant Session: Submitted Papers | | Loc: Ballroom I-IV | |
| Chemical Alternatives-2 | | Postharvest Session: Submitted Papers | |
| Moderator: Ian Porter | | Loc: Ballroom V | |
| 3:30-3:50 | Allan, Michael (5)- TM-425 (Iodomethane): Development and Regulatory Status as a Methyl Bromide Replacement | 3:30-3:50 | Mueller, David (56)-The Effects of the Montreal Protocol On Entomology |
| 3:50-4:10 | Rodriguez-Kabana, Rodrigo (6)- Pre-Plant Applications of Sodium Azide for Control of Nematodes and Weeds In Eggplant Production | 3:50-4:10 | Batchelor, Tom (57)-Progress on the Phase Out of Methyl Bromide in the European Community |
| 4:10-4:30 | Rodriguez-Kabana, Rodrigo (7)- Efficacy of Aqueous Formulations of Sodium Azide with Amine-Protein Stabilizers for Control of Nematodes and Weeds In Tomato Production | 4:10-4:30 | Halverson, William (83)-Design of A High Power Microwave Applicator for the Control of Insects in Stored Product |
| 4:30-4:50 | Rodriguez-Kabana, Rodrigo (8)- Sodium Azide for Control of Root-Knot Nematode and Weeds In Green Pepper and Tomato Production In the Souss Valley In Morocco | 4:30-4:50 | Lawrence, Frank (59)-FoodPro Forced Hot Air Post Harvest Alternative Treatment to Methyl Bromide |
| 4:50-5:00 | Discussion of Problems with Implementation of the Alternatives | 4:50-5:00 | Discussion of Problems with Implementation of the Alternatives |
| 5:30 pm – 6:30 pm | | POSTER SESSION | |
| 6:30 pm – 8:00 pm | | RECEPTION | |
| | | Moderator: Bill Thomas | |
| | | Location: Ballroom VI-VIII | |
| | | Location: Ballroom VI-VIII | |

Tuesday Morning, 6 November 2001, Concurrent Sessions

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| 7:00 am | Registration: | Location: South/West Foyer |
| 7:00 am | Coffee: Sponsor: Metam Sodium Task Force | Location: Ballroom VI-VIII |
| Preplant Session: Submitted Papers | Loc: Ballroom I-IV | Postharvest Session: Submitted Papers |
| Regulatory Impact, Solarization | | Biology, and Biologically Based Alternatives |
| Moderator: Joe Noling | | Moderator: Jim Leesch |
| 8:00-8:20 Besri, Mohamed (9)-New Development of Alternatives to Methyl Bromide for the Control of Tomato Soil Borne Pathogens in Covered Cultivation in a Developing Country: Morocco | | 8:00-8:20 Johnson, Judy (60)-Thermal Tolerance of Navel Orangeworm and Indianmeal Moth |
| 8:20-8:40 Gamliel, Abraham (10)-Soil Solarization Using Sprayable Plastic Polymers to Control Soilborne Pathogens in Field Crops | | 8:20-8:40 Burks, Charles (61)-Mating Disruption for Control of Navel Orangeworm in the Orchard |
| 8:40-9:00 Lamberti, Franco (11)-Combination of Soil Solarization and Chemical Treatments for the Control of Root-Knot Nematodes in Southern Italy | | 8:40-9:00 Siegel, Joel (62)-Status of New Insect Pathogens as Methyl Bromide Alternatives |
| 9:00-9:20 Stapleton, Jim (12)-An Additional Time/Temperature Solarization Treatment Approved in Ca. to Ensure Against Nematode Pest Infestation of Containerized Nursery Stock | | 9:00-9:20 Burks, Charles (63)-Mating Disruption for Control of the Indianmeal Moth in a Warehouse |
| 9:20-9:40 Gilreath, Jim (13)-Three Years of Soilborne Pest Control in Tomato with 1,3-D+Chloropicrin and Solarization | | 9:20-10:00 Discussion of Problems with Implementation of the Alternatives |
| 9:40-10:00 Discussion of Problems with Implementation of the Alternatives | | |
| 10:00 am – 10:30 am | Sponsor: Metam Sodium Task Force | Break |
| 10:00 am – 10:30 am | | Location: Ballroom VI-VIII |
| Preplant Session: Submitted Papers | Loc: Ballroom I-IV | Postharvest Session: Submitted Papers |
| Emission Control | | Structural and Commodity Treatments |
| Moderator: Scott Yates | | Moderator: Larry Zettler |
| 10:30-10:50 Noling, Joe (14)-Alternatives to Methyl Bromide Field Research Efforts for Nematode Control in Florida | | 10:30-10:50 Williams, Robert (64)-Precision Fumigations in Food Processing Plants Managing Cost Efficiencies |
| 10:50-11:10 Chellemi, Dan (15)-Evaluation of Technology and Application Methods for Chemical Alternatives to Methyl Bromide | | 10:50-11:10 Villers, Philippe (65)-Advanced Vacuum Fumigation and Its Applications |
| 11:10-11:30 Papiernik, Sharon (16)-Transport of Fumigant Compounds Through HDPE and Virtually Impermeable Films | | 11:10-11:30 Subramanyam, Bhadriraju (66)-Temperature Profiles During Heat Treatment of Mills and Efficacy Against Insects |
| 11:30-11:50 Locascio, Sal (17)-Alternative Fumigants Applied with PE and VIF Mulches for Tomato | | 11:30-11:50 Yi, Ye-Hee (67)-Kiln Dry Treatment for Non-manufactured Wood Packaging in South Korea |
| 11:50-12:00 Discussion of Problems with Implementation of the Alternatives | | 11:50-12:00 Discussion of Problems with Implementation of the Alternatives |
| 12:00 noon – 1:00 pm | | Lunch |

Wednesday Morning, 7 November 2001, Concurrent Sessions

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| 7:00 am | Registration: | | Location: South/West Foyer |
| 7:00 am | Coffee: Sponsor: Metam Sodium Task Force | | Location: Ballroom VI-VIII |
| Preplant Session: Submitted Papers | | Loc: Ballroom I-IV | Preplant Session: Submitted Papers |
| Biocontrol | | | Loc: Ballroom V |
| Moderator: | Husein Ajwa | | Tree & Vine Crops |
| 8:00-8:20 | Bull, Carolee (28)-Performance of Commercially Available Strawberry Cultivars in Organic Production Fields | | Moderator: Nancy Kokalis-Burelle |
| 8:20-8:40 | Roberts, Daniel (30)-Biocontrol of Seedling Pathogens and Root-Knot on Vegetables | | 8:00-8:20 Schneider, Sally (75)-On-Going Performances of Vineyard Replant Trials Initiated in 1998-2000 |
| 8:40-9:00 | Bello, Antonio (31)-Biofumigation and Grafting as Alternative to Methyl Bromide | | 8:20-8:40 Schneider, Sally (76)-Field Evaluation of Nematode Control Alternatives for Grapevine Nurseries |
| 9:00-9:20 | Lamberti, Franco (32)-Eco-Compatible Methods of Nematode Control in Southern Italy | | 8:40-9:00 Trout, Tom (77)-Fumigation and Fallowing Effects on Replant Problems in California Peach |
| 9:20-9:40 | Ndalut, Paul (33)-Alternatives to Methyl Bromide in Grain Fumigation-Survey of East Africa Extracts Against Soil Pathogens eg <i>Fusarium Oxysporum</i> | | 9:00-9:20 James, Robert (78)-Alternatives to Pre-Plant Soil Fumigation in Western Bareroot Forest Nurseries |
| 9:40-10:00 | Discussion of Problems with Implementation of the Alternatives | | 9:20-9:40 McKenry, Mike (79)-Performance of Metam Sodium Drenched to Six Different Replant Sites |
| | | | 9:20-10:00 Discussion of Problems with Implementation of the Alternatives |
| 10:00 am – 10:30 am | | Sponsor: Metam Sodium Task Force | Break |
| | | | Location: Ballroom VI-VIII |
| Preplant Session: Submitted Papers | | Loc: Ballroom I-IV | Postharvest Session: Submitted Papers |
| Biocontrol/Biofumigation | | | Modeling, Behavior and Physical Treatments |
| Moderator | Carolee Bull | | Moderator: Charles Burks |
| 10:30-10:50 | Tuzun, Sadik (34)-Plant Extractions for Replacement of Methyl Bromide: Pre and Post-Plant Applications | | 10:30-10:50 Schneider, Brian (80)-Simulation Model of Red Flour Beetle Population Dynamics & the Reality in Mills |
| 10:50-11:10 | Smither-Kopperl, Margaret (35)- <i>Streptomyces</i> for Biological Control of Pathogenic Fungi and Nematodes | | 10:50-11:10 Silhacek, Don (81)-Indianmeal Moth Behavior in Warehouse During Commodity Infestation |
| 11:10-11:30 | Zidack, Nina (36)-Mycofumigation: A Novel Alternative to Methyl Bromide | | 11:10-11:30 Wang, Shaojin (82)-RF Treatments as Alternative to Chemical Fumigation for Insect Control in Nuts |
| 11:30-11:50 | Minuto, Andrea (37)-Disinfection of Nutrient Solution in Closed Soilless Systems: Results in Italy | | 11:30-11:50 Vitarana, Sushila (136)-Methyl Bromide Substitutes for Usage on Tea Plantations with Special Reference to Eradication of Phytophagous Nematodes |
| 11:50-12:10 | Vitarana, Sushila (136)-Methyl Bromide Substitutes for Usage on Tea Plantations with Special Reference to Eradication of Phytophagous Nematodes | | 11:30-12:00 Discussion of Problems with Implementation of the Alternatives |
| 11:50-12:00 | Discussion of Problems with Implementation of the Alternatives | | |

POSTER PRESENTATIONS

PREPLANT:

- Fennimore, Steven** (96)- Alternative Fumigants for Control of Soil Pests: Strawberry as a Model System
Sams, Carl (97)- Brassica Biofumigation Increases Marketable Tomato Yield
Sams, Carl (98)- Combining MITC, Composts and Brassica Amendments to Control Southern Blight
Ajwa, Husein (99)- Microbial Community Structure and Diversity in Fumigated Soils
Eayre, Cynthia (100)- Chloropicrin Fumigation and Bacterial Treatment Increases Strawberry Yield
Seebold, Kenneth (101)- Comparison of Application Timing Effects of Metam Sodium & Chloropicrin Against Soilborne Fungi and Yellow Nutsedge
Browne, Greg (102)- Determining Unknown Causes of Replant Disorder on Prunus Species in California
Ralles, Jim (103)- HYTIBAR FLEX (VIF) Fumigation/Mulch Film Reduces Rates and Increases Efficacy
Elmore, Clyde (104)- Evaluations of Pest Control Over Two Years in Field Pots
Kobara, Yuso (105)- Monitoring of Atmospheric Fumigants in the Horticultural Area of Ibaraki, Japan
Griffith, Tom (106)- PROPOZONE, (Propylene Oxide) Soil Fumigant
Benlioglu, Seher (107)- Studies on MB Alternatives of Strawberries in Aydin Province
Rimini, Riccardo (108)- VIF FROM ITALY
Schutter, Mary (21)- Changes in Soil Microbial Activities Under Drip Fumigation
Drake, Gale (25)- Vydate L, Methyl Bromide Alternative for Nematodes and Insects in Vegetables

POSTHARVEST:

- Ryan, Robert** (109)- Alternate Gas Fumigants
Ryan, Robert (110)- The Envirosol Technology
Kuenen, Lodewyk (111)- Attractants for Navel Orangeworm to Reduce Infestations and Aflatoxins
Krishna, Hari (112)- Carbon Dioxide Fumigation of Thrips (*Thrips tabaci* Lind.) in Export Onions
Ren, Yong Lin (113)- Carbonyl Sulfide - a Potential Fumigant for Export Hay
Ren, Yong Lin (114)- Cyanogen and Carbonyl Sulfide as Potential Quarantine Fumigants for Timber
Ren, Yong Lin (115)- Fate of ¹⁴C-Labelled COS on Grains and Grain Fractions
Knapp, Gary (116)- Commercial Methyl Bromide Recapture
Simpson, Tiffanie (117)- Effects of Acetaldehyde on Fruit Quality and Target Pests for Strawberries
Simpson, Tiffanie (118)- Forced Hot Air for Control of Arthropods in Harvested Chrysanthemum Cuttings
Yahata, Taneaki (119)- Emissions Reducing Method and Apparatus for Volatile Organic Halides

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| Lawrence, Frank (59)- | FoodPro Forced Hot Air Post Harvest Alternative Treatment to Methyl Bromide |
| Arthur, Frank (120)- | Insecticides to Control Insects in Mills, Plants, Food Warehouses, and Urban Storages |
| Phillips, Thomas (121)- | Microwave Irradiation of Flowing Grain to Control Stored-Product Insects |
| Phillips, Thomas (122)- | Vacuum for Controlling Stored-Product Insects: Effects of Pressure, Temperature and Life Stage |
| Aung, Louis (123)- | Postharvest Quality/Phytoxicity of Fresh Commodities Subjected to MB Alternative Treatments |
| Warren, Morris (125)- | Use of Propylene Oxide as an Insect Fumigant for Dried Fruits |
| Zettler, Larry (126)- | Quarantine Security of Pink Hibiscus Mealybug with Methyl Bromide |
| Dwinell, David (127)- | Survival of the Pinewood Nematode in CAA-Treated Shortleaf Pine Timber |
| Keever, Dennis (128)- | Mortality and Stability of the Cigarette Beetle, <i>Lasioderma Serricornis</i> (F.), Due to Exposure to Atmospheric Plasma |

Structural:

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| Fields, Paul (129)- | Pea Protein Combined with Parasitoids to Control Stored-Product Insects |
| Barak, Alan (130)- | Penetration & De-gassing of SO ₂ F ₂ and CH ₃ Br During Fumigation and Aeration of Chinese Bamboo |
| Ren, Yong Lin (131)- | The Possibility of Using Cyanogen for Space or Mill Fumigation |
| Abaraw, Mimoun (132)- | Heat Treatments...the Future of Pest Management |

Misc.

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| Thomas, Bill (133)- | 2001 Update on the Methyl Bromide Phase Out |
| McKeague, Dale (134)- | Alternatives to Methyl Bromide: Selected Canadian Case Studies |