



## SYMPOSIUM PROGRAM

### Sunday, 13 September 2009

- 1500-2000 Registration at Collegium De Valk
- 1800-2000 Opening reception at Collegium De Valk, Tiensestraat 41, 3000 Leuven

### Monday, 14 September 2009

- 0900-1000 Opening session**  
0900-0920 Welcome and introduction - *Prof. Jozef Coosemans (Belgium)*  
Welcome at KULeuven, Faculty of Bioscience Engineering - *Prof. Pol Coppin, Dean of the Faculty (Belgium)*  
Introduction to the scientific program - *Dr. Abraham Gamliel (Israel)*
- 0920 Keynote lecture: Soil and crop health following soil disinfestation - *Jaacov Katan (Israel) and Alfons Vanachter (Belgium)*
- 1000-1200 Special session**  
**New developments and expectations since the Sixth Symposium - Corfu 2004. Needs, possibilities, legal changes, expectations**  
Chairperson: Ian Porter (Australia)
- 1000 Invited lecture:  
Emerging new pests and diseases and new trends in their management - Angelo Garibaldi (Italy)
- 1030 New developments and expectations: Vision from the scientific world – Abraham Gamliel (Israel)
- 1045 New developments and expectations: Vision and expectations from *horticultural and agricultural* sector- Marta Pizano (Colombia)
- 1100-1130 COFFEE BREAK**
- 1130 New developments and expectations: Vision from *industry and fumigators* - Husein Ajwa (USA)
- 1145 New developments and expectations: Vision from *decision makers* - Francesca Arena (EC)
- 1200 Discussion**
- 1215-1330 Session 1**  
**MBr Alternatives**  
Chairperson : Marta Pizano (Colombia)
- 1215 Progress in the global phase out of methyl bromide and the relative effectiveness of soil disinfestation products to replace fumigation for pre-plant soil uses – Ian Porter, M. Pizano, M. Besri, S. Mattner and P. Fraser



- 1230 Is There a Future for 1,3-Dichloropropene and Other Chemical Soil Fumigants in European Agriculture? – Andrew Leader, J. Busacca; J. Dawson; T. Lyall and H. Eelen
- 1245 Adoption of Methyl Bromide Alternatives and a Profile of Turkish Cut flower sector – Suat Yilmaz, M. A. Çelikyurt and B. Sayin
- 1300 Japan's big effort to the phase out of methyl bromide by 2013 – Akio Tateya
- 1330-1430 LUNCH BREAK AND POSTER VIEWING**
- 1430-1630 Special Session**  
**Methyl bromide alternatives : ALTERBROMIDE (EC) project**  
Chairperson: Gael du Fretay (France)
- 1430 Invited lecture :  
ALTERBROMIDE, dissemination of sustainable alternatives to Methyl Bromide in soil disinfestation and in post harvest - Gael du Fretay, J. Dasque; J. Auger; J. Coosemans; P. Colla; F. Pauwels and J. Fritsch (France)
- 1500 Current status of chemical and non-chemical soil disinfestations solutions in France – Jerome Fritsch
- 1515 Mechanical or manual applications of soil solarization for the control of soilborne pathogens in plastic house or open field in Greece – Polymnia Antoniou, Sotiris Tjamos and E. C. Tjamos
- 1530 Soil disinfestation treatments with 1.3-dichloropropene and chloropicrin under low temperature conditions for strawberry mother plants – Vicent Cebolla and Serrano Fernando
- 1545 Greenhouse grafting cucumber crop – methyl bromide alternative in Romania – Marian Bogoescu, Madalina Doltu, D. Sora and Niculina Tanasa
- 1600 Soil and substrate microbiologizing: a promising approach for sustainable horticulture – Frans Pauwels
- 1615 Discussions**
- 1630-1700 COFFEE BREAK**
- 1700-1800 Special Session:**  
**Methyl bromide alternatives: ALTMET (B) project**  
Chairperson: Henri Maraite (Belgium)
- 1700 Efficacy of chemical alternatives for Methyl bromide in lettuce production: field experiment - Ann Ceustermans, E. Van Wambeke and J. Coosemans
- 1715 Combinations of chemical soil fumigants for broad spectrum soil disinfestation- Etienne Van Wambeke, A. Ceustermans, A. De Landtsheer, K. Gybels and J. Coosemans.
- 1730 Microbial mechanisms involved in the suppression of *Rhizoctonia solani* AG1-1B by lignin incorporation in soil – Sarah Van Beneden, Dries Roobroeck, Soraya C. França, Stefaan De Neve, Pascal Boeckx and Monica Höfte
- 1745 Use of oxamyl in the post methyl bromide era – Johan Desaegeer and J. Wiles
- 1900-2100 Guided city tour and reception at the City Hall**



## Tuesday, 15 September 2009

### 0830-1100 Session 2

#### Chemical Soil Disinfestation

Chairperson : Husein Ajwa (USA)

- 0830 Shank application of chloropicrin as an alternative to methyl bromide for peach tree replant – S. Foschi, C. Spotti, A. Minuto, G. Minuto
- 0845 The emulsifiable formulations of Dimethyldisulfide (DMDS) and its mixtures with chloropicrin as alternatives to methyl bromide - Vicent Cebolla, Daniel Llobel, Antonio Oliver, Luís Miguel Valero, Francisco Torró and Andrés Hernández
- 0900 Evaluation of the efficacy of DMDS using drip application for the control of root knot nematodes (*Meloidogyne* spp.) in Turkey – J.J. Heller, E. Korkmaz and P. Charles
- 0915 Multi-tactic Approaches to Manage Soilborne Pathogens of Specialty Crops in North Carolina – Frank Louws, R.M. Welker, J.G. Driver and C.L. Rivard
- 0930 Powdery scab occurrence and control in Israel - Lea Tsrer (Lahkim), O. Erlich, M. Hazanovsky and U. Zig
- 0945 Soil chemical treatments for the control of Fusarium wilt of Carnation in Spain - M. J. Basallote Ureba, M. D. Vela Delgado, F. J. Macías, C. J. López Herrera and J. M. Melero Vara
- 1000 Effectiveness of fumigants alone and in combination with grafting to control *Verticillium* wilt and root-knot nematode in eggplant and tomato brown rot caused by *Colletotrichum coccodes* – Giovanna Gilardi, M. Baudino, M. L. Gullino and A. Garibaldi
- 1015 Top applications of fungicides for the control of melon sudden wilt caused by *Monosporascus cannonballus* - Shimon Pivonia, A. Maduel, R. Levita and R. Cohen
- 1030 Accelerated degradation of metam-sodium in soil: Isolation and characterization of the involved microorganisms - Shachaf Triky-Dotan, M. Austerweil, B. Steiner, D. Minz, J. Katan and A. Gamliel
- 1045 Discussion**

### 1100-1130 COFFEE BREAK

### 1130-1330 Session 3

#### Assessment tools for soil infestation and disinfestation

Chairperson : George Lazarovits (Canada)

- 1130 Invited lecture:  
Assessing the spatial distribution of soil infestation by means of remote sensing and GIS as the “first-aid” for soil disinfestation - Yafit Cohen(Israel)
- 1200 Distribution and control of pod wart disease of peanuts as analyzed using spatial means –Harel Caduri, A. Gamliel and Y. Cohen
- 1215 Unraveling Soil Communities Using the CPN60 Genomic Marker and Pyrosequencing - George Lazarovits, R. Ramarathnam and S.M.Hemmingsen
- 1230 A knowledge based system to Predict Plot infestation with *Verticillium dahliae* and the success of disinfestation in Potato production systems - E. Goldstein, Y. Cohen, A. Hetzroni, L. Tsrer, U. Zig and I. Lensky



- 1245            Methods to monitor MITC for phytotoxicity and in the environment -  
Etienne Van Wambeke
- 1300            **Discussions**
- 1330–1430    LUNCH BREAK AND POSTER VIEWING**
- 1430-1500    Poster viewing**
- 1500-1530    Poster Session discussion**  
Chairperson : Alfons Vanachter (Belgium)
- 1530-1630    Session 4**  
**Integrated Control**  
Chairperson: Maria Lodovica Gullino (Italy)
- 1530            Invited lecture:  
Biological control of plant-parasitic nematodes: from fantasy to reality  
- Yitzhak Spiegel (Israel)
- 1600            Evaluation of some pre-plant soil treatments and chemical  
disinfectants for control of Fusarium wilt diseases in cut flowers -  
Timothy O'Neill and K.R. Green
- 1615            TrichoNema: a Trichoderma-based project to develop a commercial  
biocontrol agent product against phytonematodes - Edna Sharon, M.  
Mor, M. Bar-Eyal, Y. Oka, S. Van Kerckhove, A. Vanachter, I. Chet and  
Y. Spiegel
- 1630-1700 COFFEE BREAK**
- 1700-1900    **Roundtable discussion**  
**Application of soil disinfestation: bottlenecks, challenges  
and improvement possibilities:**  
Application of fumigants (drip or shank) alone and in combination –  
Husein Ajwa  
Application of fumigants with other methods (solarization) – Abraham  
Gamliel  
Application of non-fumigant treatments (soft chemicals) – Steve  
Fennimore  
Application of soil disinfestation with biocontrol agents – Jozef  
Coosemans
- 1930-2100    Visit at Inbev Brewery, Leuven : optional**

## Wednesday, 16 September 2009

**Technical Visit to the Vegetable Production in the region of Mechelen and  
Antwerp**

**Thursday, 17 September 2009****0830-1100 Session 5****Physical methods of soil disinfestation and solarization**

Chairperson : Eleftherios Tjamos (Greece)

- 0830 Invited lecture:  
Physical methods for soil disinfestation in intensive agriculture: Old methods and new approaches - Willemien Runia and L.P.G. Molendijk (The Netherlands)
- 0900 Combining Effects of Soil Solarization and Grafting on Plant Yield and soilborne pathogens in cucumber – Suat Yilmaz and I. Celik
- 0915 Nitrate leaching after organic amendment under soil solarization in two different soils and its effects on yield and health of escarole and pepper - Vicent Cebolla, Josep Roselló, Carlos Ramos and Fernando Pomares
- 0930 The Effect of Pre-wetting on Thermal Inactivation of Soilborne Pathogens in Connection with Structural Solarization of Greenhouses - E. Shlevin, P. Di-Primo and J. Katan
- 0945 Perspectives of anaerobic soil disinfestation - Willemien Runia, L.P.G. Molendijk and P.O. Bleeker

**1000-1315 Session 6****Organic amendments**

Chairperson : José Melero-Vara (Spain)

- 1000 Effect of Biofumigation with Brassica Cover Crops on Weed Populations, Soil microbial Activity, and Fruit Rot in Pickling Cucumber Production - Mathieu Ngouajio and J. W. Counts
- 1015 Green manures and organic amendments to control corky root of tomato - Vincent Michel and L. Lazzeri
- 1030 Effect of Brassica green manure and Brassica pellets in combination with grafting and soil solarization against Verticillium wilt of eggplant and Fusarium wilt of lettuce and basil - Giovanna Gilardi, L. Lazzeri, L. Malaguti, F. Clematis, A. Minuto and M.L.Gullino
- 1045 Use of pelleted Medicago sativa meal for the control of root-knot and cyst nematodes - Trifone D'Addabbo, P. Avato, V. Radicci and A. Tava

**1100-1130 COFFEE BREAK**

- 1130 Kakawate (*Gliricidia sepium*) as a Soil Amendment and Biological Control of Soil-borne Pathogens: The Philippines Experience - Gina Pangga
- 1145 Combined Effects of Bio control Agent and Residues on Root Rot Mortality in Indian Mesquite (*Prosopis cineraria*) – Satish Lodha and L.N. Harsh
- 1200 Additional benefits to the efficacy in containing soilborne pest and pathogens of biofumigant plants and materials – Luca Lazzeri, Onofrio Leoni, Lorena Malaguti and Lorenzo D'Avino
- 1215 Mycofumigation using *Muscodor albus* for control of soilborne plant pathogens - Barry Jacobson, E. Grimme and G. Strobel
- 1230 Induced soil suppressiveness to root diseases by herb amendments and solarization- Eyal Klein, J. Katan and A. Gamliel
- 1245 Plant metabolites derived from Brassica spp. tissues as biofumigant to control soil borne fungi pathogens- Eva Romero Luna, C. Barrau and F. Romero

**1300 Discussion**

**1315-1430 LUNCH BREAK****1430-1630 Session 7 Soilless culture.**

Chairperson : Vicent Cebolla (Spain)

1430 Invited lecture :

Disease control in soil-less systems - Erik Van Os (The Netherlands)1500 Disinfestation of Polystyrene Seedling Trays for Substrate-based Float Systems in Australia - Scott Mattner, D.A. Wite, G.G. Baxter, R.C. Mann, R.J Holmes and I.J. Porter1515 Effect of commercially available composts on plant health – Oliver Gurnett, Maaïke Perneel and Stefaan Vandaele1530 Effect of ozone treatment on suppressivity of composted sewage sludge on *Meloidogyne incognita* - N. Sasanelli, Trifone D'Addabbo, L. Mancini and F. Ciccarese**1545 Discussions****1600–1630 COFFEE BREAK****1630-1800 Closing Session**

- International Society for Horticultural Science – Jo Van Assche (Belgium)

- Concluding remarks – Monica Höfte (Belgium)

- General discussion and next meeting – Jaacov Katan (Scientific Committee)

**2000 CONFERENCE DINNER at Salons Georges, Leuven**



## Posters

### MB alternatives

1. Economic Evaluation of Chemical and Non-Chemical Soil Disinfestation - B. Sayin, M. A. Çelikyurt Suat Yilmaz and İ. Çelik
2. Maintaining Biosecurity and Market Access in the Australian Strawberry Industry Following Methyl Bromide Phase-out – Scott W. Mattner, I.J Porter, R.K. Gounder, R.C. Mann and B. Guijarro
3. Pests and diseases of sweet basil after methyl bromide phase out: the Northern Italian experience - Andrea Minuto, N. Vovlas, A. Troccoli, C. Bruzzone, M. Scortichini and G. Minuto

### Chemical disinfestation

4. Effect of soil fumigants on fungal communities in protected pepper crops in Southeast Spain - Maria Angeles Martínez, M.A. Martínez, M.C. Martínez, J. Torres, C. Ros, M.M. Guerrero and A. Lacasa
5. Efficacy of DMDS as a soil treatment against *Meloidogyne chitwoodii* in the Netherlands - Charles Patrick and Jean Jacques Heller
6. Evaluation of DMDS as Soil Fumigant Application, Distribution and Pest control - A. Gamliel, Miriam Austerweil, Bracha Steiner, Yehodit Riven, Marina Benichis and Sagi Gal
7. Dissipation fumigants in the soil and its impact on the control of nematode and parasitic weeds. R. Allon, Miriam Austerweil, Bracha Steiner, Marina beniches, Miri Grinner, b. Rubin and A. Gamliel

### Integrated control

8. The physiological sudden collapse of grafted melon as a result of a not appropriate growing procedure - A. Minuto, G. Causarano, C. Bruzzone, G. La Lota, S. Longombardo and G. Minuto
9. Evaluation of Steam, Biofumigants, and Fungicides for Strawberry Production in Field Soils - S. Fennimore, J. Weber, J. Samtani and C. Gilbert
10. A comparison of four pre-plant soil treatments for control of *Verticillium* wilt in field-grown trees - T.M. O'Neill, T. Locke and C.J. Dyer
11. Chemical and biological alternatives for soil disinfestation in strawberry production - M. Thoelen, F. Meurrens, K. Stevens, J. Kellers, J. Coosemans and S. Clemens
12. Soil-born diseases/pest control research in Lithuania - Sonata Kazlauskaitė, Elena Survilienė, Aurelija Saluchaitė

### Physical methods of soil Disinfestation and solarization

13. Soil Solarization as Alternative to Methyl Bromide for the Control of Protected Vegetable Soil Borne Pathogens in Morocco - Mohamed Besri

### Organic amendments

14. Non-Chemical Options for Managing Soil Borne Plant Pathogens in Indian Arid Zone - Satish Lodha, R.Mawar and V.Singh
15. Effect of biosolarisation using pellets of *Brassica carinata* on soil-borne pathogens in protected pepper crops - M.M. Guerrero, M.A. Martínez, C. Ros, C.M. Lacasa, V. Martínez, A. Lacasa and P. Fernández
16. Efficacy of biosolarisation with sugar beet vinasses for soil disinfestation in pepper greenhouses - C. M. Lacasa, M.M. Guerrero, C. Ros, M.A. Martínez, V. Martínez, A. Lacasa and P. Fernández



17. Integration of Non-chemical Methods of Controlling Fusarium Wilt of Carnation - R. A. Nava-Juárez and J.M. Melero-Vara
18. Application of organic amendments followed by plastic mulching for the control of Phytophthora root rot of pepper in northern Spain - Mireia Núñez-Zofío, C. Garbisu and S. Larregla
19. Effect of meal of *Aster caucasicus* and *A. sedifolius* on the control of root-knot nematodes in glasshouse - Mauro Di Vito, P. Pecchia, F. Catalano, M. Cammareri and C. Conicella
20. Effects of Soil Organic Amendments and Incubation Temperature on the Control of *Fusarium oxysporum f. sp. asparagi* - A. Borrego-Benjumea, J. M. Melero-Vara and M. J. Basallote-Ureba
21. Effects of Several Soil Amendments on Allelopathy and Tolerance to Violet Root Rot in Mycorrhizal Asparagus Plants - A. S. M. Nahiyán, Y. Yagi, T. Okada and Y. Matsubara

### Soilless culture

22. Effects of Zeolite-Peat Mixtures on Yield and Some Quality Parameters of carnation - S. Kazaz and S. Yilmaz

### Biological control

23. Biocontrol of Eggplant Bacterial Wilt with Combination of Avirulent Bacteriocin Producing Strain of *Ralstonia solanacearum* and Rhizosphere Bacteria - Triwidodo Arwiyanto and Suhartiningsih Dwi Nurcahyanti
24. Determination of Deoxynivalenol in corn crop at Ardabil province in Iran and related *Fusarium* species in 2007-2008 - Z. Aliakbari, H. Aminian, M. Mirabolfathi and R. Karami-Osboo
25. Evaluation of *Trichoderma* Isolates for Biological Control of Crown and Root rot in wheat (*Bipolaris spicifera* (Bain.) Subram) - H. R. Etebarian and M. Mohammadifar
26. Tolerance to Allelopathy and *Fusarium* Disease in Mycorrhizal Asparagus Plants Raised in Decline Soil - Y. Matsubara, T. Okada and A. S. M. Nahiyán