

## PROGRAMME

**MONDAY, 13 September 2010**

**08.30 REGISTRATION**

### OPENING SESSION

**Chairpersons:** Antonio DE CRISTOFARO, *Local organizer, University of Molise*  
Antonella DI PALMA, *Local organizer, University of Foggia*

<b>10.00</b>	<b>Authorities' welcome</b> Luigi DAMIANI - <i>Major of the town, Municipality of Vico del Gargano</i> Giuliano VOLPE - <i>Rector of the University of Foggia</i> Giovanni CANNATA: <i>Rector of the University of Molise</i> Agostino SEVI - <i>Dean of the Agricultural Faculty, University of Foggia</i> Roberto BUDRAGO - <i>Town Councillor for Agriculture</i>
<b>10.15</b>	<b>Presentation of IOBC/WPRS organizational structure and function</b> Jerry CROSS - <i>IOBC/WPRS liaison officer</i>
<b>10.30</b>	<b>Meeting introduction</b> Claudio IORIATTI – <i>“Integrated Protection of fruit crops” Working Group Convenor</i> L. Adriana ESCUDERO-COLOMAR – <i>“Pome fruit arthropods” sub-group Coordinator</i> Fabio MOLINARI – <i>“Stone fruits” sub-group Coordinator</i>

**10.45 KEYNOTE LECTURE 1**

**Use of microbial agents and nematodes for biological control of the fruit crop pests.**

Ralf-Udo EHLERS

*Institut for Phytopathology, Dept. Biotechnology and Biological Control, Christian-Albrechts-University Kiel, Kiel, GERMANY*

**11.30 COFFEE BREAK**

**SESSION 1 Codling moth: biological control and behaviour**

**Chairperson:** Claudio IORIATTI  
*FEM-IASMA, Centre for Technology Transfer, S. Michele all'Adige, ITALY*

<b>12.00</b>	<b>Earwig predation of Codling moth eggs in apple orchards.</b> Benoit SAUPHANOR <i>INRA, UMR Plantes et Systèmes de culture Horticoles, Agroparc, Avignon Cédex, FRANCE</i>
<b>12.20</b>	<b>The host plant affects the survival of larvae of Codling moth <i>Cydia pomonella</i> L.</b> Herman HELSEN <i>Wageningen UR, Applied Plant Research, THE NETHERLANDS</i>
<b>12.40</b>	<b>Interactions between the egg parasitoid <i>Trichogramma minutum</i> and the Codling moth Granulovirus.</b> Daniel CORMIER <i>Institut de Recherche et de Développement en Agroenvironnement, Saint-Hyacinthe, CANADA</i>

## 13.00 LUNCH

### 14.30 KEYNOTE LECTURE 2

**Exotic fruit flies: a tale of stowaways, invaders and conquerors.**

Marc DE MEYER

*Royal Museum for Central Africa, Tervuren, BELGIUM*

### SESSION 2 **Psyllids: control and behaviour**

**Chairperson:** L. Adriana ESCUDERO-COLOMAR

*IRTA-Mas Badia, Girona, SPAIN*

15.15	<b>Possibilities for the biological control of <i>Cacopsylla pyri</i> based on native natural enemies in the Southeast of Spain.</b> Juan-Antonio SANCHEZ <i>I.M.I.D.A., La Alberca, SPAIN</i>
15.35	<b>The role of Psyllids (Hemiptera: Psyllidae) as vectors of phytoplasmas in Austrian pome and stone fruits.</b> Christa LETHMAYER <i>Austrian Agency for Health and Food Safety, Vienna, AUSTRIA</i>
15.55	<b>Laboratory, semi-field and field studies to evaluate the effect of pesticides on Psyllids.</b> Valeria MALAGNINI <i>FEM-IASMA, Centre for Technology Transfer, S. Michele all'Adige, ITALY</i>

## 16.15 COFFEE BREAK

### SESSION 3 **Minor pests**

**Chairperson:** Howard THISTLEWOOD

*Agriculture and Agri-Food Canada, Summerland, BC, CANADA*

16.40	<b>Biology and impact of the forest bug (<i>Pentatoma rufipes</i>) in pear and apricot orchards.</b> Patrik KEHRLI <i>Station de Recherche Agroscope Changins-Wädenswil, Nyon, SWITZERLAND</i>
17.00	<b>Efficacy of different extracts of <i>Rhamnus dispermus</i> Ehrenb. as aphicides against <i>Eriosoma lanigerum</i> (Hausmann) and its parasitoid, <i>Aphelinus mali</i> (Hald.).</b> Mazen ATEYYAT <i>Dept. of Plant Protection, Al-Balqa' Applied University, Al-Salt, JORDAN</i>
17.20	<b>Seasonal occurrences and chemical control of Oyster scale, <i>Pseudaulacaspis cockerelli</i> (Diaspididae) in persimmon, <i>Diospyros kaki</i> in Korea.</b> Bu-Keun CHUNG <i>Division of Plant Environment, Gyeongnam Agricultural Research and Extension Services, Jinju, KOREA</i>
17.40	<b>Relationship of the quantitative and qualitative volatile oil contents of citrus leaves with infestation of citrus varieties with citrus leaf miner <i>Phyllocnistis citrella</i>.</b> Mohammad Ibrahim MOGAHED <i>Dept. of Pests and Plant Protection, National Research Centre, Dokki, Cairo, EGYPT</i>

## **TUESDAY, 14 September 2010**

### **SESSION 4      IPM and environmental impact**

**Chairperson:** Jerry CROSS  
*EMR, East Malling, UNITED KINGDOM*

<b>09.30</b>	<b>POM.net: a project based on fungicide and insecticide reduction sprayings to minimize residues on apples.</b> Mariano VILAJELIU <i>IRTA-Mas Badia, Girona, SPAIN</i>
<b>09.50</b>	<b>The environmental impact of the pesticides applied in the integrated apple production system in operation in Trentino: preliminary results.</b> Claudio IORIATTI <i>FEM-IASMA, Centre for Technology Transfer, S. Michele all'Adige, ITALY</i>
<b>10.10</b>	<b>Development and validation of a "Real Time" apple IPM website for New York.</b> Arthur AGNELLO <i>Dept. of Entomology, Cornell University, Geneva, NY, USA</i>
<b>10.30</b>	<b>Testing web based IPM strategies in New York orchards.</b> Harvey REISSIG <i>Dept. of Entomology, Cornell University, Geneva, NY, USA</i>
<b>10.50</b>	<b>Short and long term side-effects on honeybees of Imidacloprid in apple orchards.</b> Paolo FONTANA <i>FEM-IASMA, Centre for Technology Transfer, S. Michele all'Adige, ITALY</i>

### **11.10 COFFEE BREAK**

### **SESSION 5      Mating disruption (I)**

**Chairperson:** Larry GUT  
*Dept. of Entomology, Michigan State University, East Lansing, MI, USA*

<b>11.40</b>	<b>Successes and challenges with adoption of whole farm mating disruption programs by commercial fruit growers in Eastern United States – a Pennsylvania perspective.</b> Greg KRAWCZYK <i>Dept. of Entomology, Fruit Research and Extension Center, The Pennsylvania State University, Biglerville, PA, USA</i>
<b>12.00</b>	<b>Management of the Sesiid Borer, <i>Synanthedon scitula</i> (Harr.) with mating disruption and mass trapping in apple orchards in Michigan, USA.</b> David EPSTEIN <i>Dept. of Entomology, Michigan State University, East Lansing, MI, USA</i>
<b>12.20</b>	<b>Use of Puffer<sup>®</sup> technology as mating disruption tool for pest control.</b> Santiago MARTI <i>Suterra Europe Biocontrol, Cerdanyola del Vallès, SPAIN</i>
<b>12.40</b>	<b>Mating disruption and toxic bait to control the Oriental fruit moth and the American fruit fly on peach orchards in Brazil.</b> Marcos BOTTON <i>Embrapa Grape and Wine, Bento Gonçalves, RS, BRAZIL</i>

### 13.00 LUNCH

### 15.00 POSTER SESSION (I) (P1-P15) - VISIT AND DISCUSSION

**Chairperson:** Andrea LUCCHI  
*Dept. of Tree Sciences, Section Agricultural Entomology, University of Pisa, Pisa, ITALY*

### 16.30 COFFEE BREAK

### SESSION 6 Mating disruption (II)

**Chairperson:** Benoit SAUPHANOR  
*INRA, UMR Plantes et Systèmes de culture Horticoles, Agroparc, Avignon Cédex, FRANCE*

17.00	<b>Mechanisms of mating disruption: aerial pheromone concentration measured in disrupted orchards causes reduced male response to sexually receptive females in a pest tortricid moth.</b> Mitch TRIMBLE <i>Southern Crop Protection &amp; Food Research Centre, Agriculture and Agri-Food Canada, Vineland Station, ON, CANADA</i>
17.20	<b>Novel mating disruption technologies and strategies for managing tree fruit pests.</b> Larry GUT <i>Dept. of Entomology, Michigan State University, East Lansing, MI, USA</i>
17.40	<b>Mating disruption by vibrational signals: theory and possible applications to Hemipteran pests.</b> Valerio MAZZONI <i>FEM-IASMA, Research and Innovation Centre, S. Michele all'Adige, ITALY</i>

### WEDNESDAY, 15 September 2010

### 09.00 EXCURSION TO TREMITI ISLANDS

17.30 Return to Vico del Gargano

### 19.00 SOCIAL DINNER

### THURSDAY, 16 September 2010

### 09.30 KEYNOTE LECTURE 3

***Drosophila suzukii*, a new pest of stone fruits in Western North America.**

Peter W. SHEARER

*Oregon State University, Hood River, OR, USA*

Howard THISTLEWOOD

*Agriculture and Agri-Food Canada, Summerland, BC, CANADA*

## SESSION 7 Flies: behaviour and control

Chairperson: Heidrun VOGT

*JKI, Inst. for Plant Protection in Fruit Crops and Viticulture, Dossenheim, GERMANY*

10.15	<b>Behavioral responses of the Fruit Fly parasitoid <i>Psytalia concolor</i> (Szépligeti) (Hymenoptera Braconidae), to fruits infested by <i>Ceratitis capitata</i> (Wiedemann) (Diptera Tephritidae).</b> Giovanni BENELLI <i>Dept. of Tree Sciences, Section Agricultural Entomology, University of Pisa, Pisa, ITALY</i>
10.35	<b><i>Rhagoletis cerasi</i> (L.) in Western Sicily: presence, damages and control in organic cherry orchards.</b> Manuela PALUMBO PICCIONELLO <i>Dept. S.EN.FI.MI.ZO, University of Palermo, Palermo, ITALY</i>
10.55	<b>Key biological and ecological characteristics of European cherry fruit fly <i>Rhagoletis cerasi</i> with relevance to management.</b> Heidrun VOGT <i>Julius Kühn Institut, Institute for Plant Protection in Fruit Crops and Viticulture, Dossenheim, GERMANY</i>

## 11.15 COFFEE BREAK

## SESSION 8 Semiochemicals and fruit flies

Chairperson: Giuseppe ROTUNDO

*Dept. Animal, Plant and Environmental Sciences, University of Molise, Campobasso, ITALY*

11.35	<b>Electrophysiological and behavioural activity of plant volatile terpenes in three Tephritid Flies.</b> Gianfranco ANFORA <i>FEM-IASMA, Research and Innovation Centre, S. Michele all'Adige, ITALY</i>
11.55	<b>Electrophysiological and olfactory activity of orange VOCs on <i>Ceratitis capitata</i> (Wiedemann).</b> Silvia VITAGLIANO <i>Dept. Animal, Plant and Environmental Sciences, University of Molise, Campobasso, ITALY</i>
12.15	<b>Biological activity of <i>Citrus</i> spp. metabolites on <i>Ceratitis capitata</i> (Wiedemann).</b> Nicoletta FARAONE <i>Dept. S.EN.FI.MI.ZO and Dept. of Organic Chemistry, University of Palermo, ITALY</i>
12.35	<b>Insecticide improvements for use in mass trapping technique in <i>Ceratitis capitata</i> control.</b> L. Adriana ESCUDERO-COLOMAR <i>IRTA-Mas Badia, Girona, SPAIN</i>

## 13.00 LUNCH

## 15.00 POSTER SESSION (II) (S1-S14) - VISIT AND DISCUSSION

Chairperson: Fabio MOLINARI

*Inst. of Entomology and Plant Pathology, Università Cattolica Sacro Cuore, Piacenza, ITALY*

## 16.30 COFFEE BREAK

## SESSION 9 OFM behaviour and control

Chairperson: Mitch TRIMBLE

*SCP & FRC, Agriculture and Agri-Food Canada, Vineland Station, ON, CANADA*

16.50	<b>Unique logistic model for simultaneous forecasting of major Lepidopterous peach pest complex.</b> Petros DAMOS <i>Lab. of Applied Zoology and Parasitology, Aristotele University of Thessaloniki, GREECE</i>
17.00	<b>Host plant differentiation in French populations of the oriental fruit moth, <i>Cydia molesta</i>.</b> Myriam SIEGWART <i>INRA, UMR Plantes et Systèmes de culture Horticoles, Agroparc, Avignon Cédex, FRANCE</i>
17.20	<b>Olfactory activity of Ethyl (E,Z)-2,4-decadienoate on Oriental Fruit Moth adults.</b> Fabio MOLINARI <i>Inst. of Entomology and Plant Pathology, Università Cattolica del Sacro Cuore, Piacenza, ITALY</i>
17.40	<b><i>Bacillus thuringiensis</i> serovar <i>kurstaki</i> Strain EG2348 – A neglected tool for efficient Oriental Fruit Moth control.</b> Edith LADURNER <i>Intrachem Production S.r.l., Grassobbio (BG), ITALY</i>

## CONCLUSION

Chairpersons: Antonio DE CRISTOFARO, *Local organizer, University of Molise*

Antonella DI PALMA, *Local organizer, University of Foggia*

18.00	Fabio MOLINARI – <i>“Stone Fruits” sub-group Coordinator</i> L. Adriana ESCUDERO-COLOMAR – <i>“Pome Fruit Arthropods” sub-group Coordinator</i> Claudio IORIATTI – <i>“Integrated Protection of Fruit Crops” Working Group Convenor</i>
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## FRIDAY, 17 September 2010

An introduction to the fruit biodiversity of Gargano, “The Mountain of the Sun”.

09.00	<b>Fruit biodiversity of traditional agricultural districts: the case of Gargano.</b> Nello BISCOTTI <i>Dipartimento di Scienze Ambientali e delle Produzioni Vegetali, Università Politecnica delle Marche, Ancona, ITALY</i>
09.45	<b>Technical excursion to typical citrus groves, monumental olive trees and ancient fruits orchards.</b>

14.00 LUNCH

15.30 FREE AFTERNOON

20.00 FAREWELL DINNER

## SATURDAY, 18 September 2010

05.00 DEPARTURE

**POSTER SESSION (I) - Tuesday, 14 September 2010, 15.00**

P1	<u>PATANITA M. I.</u> <b>The use of sexual pheromone in the control of <i>Laspeyresia pomonella</i> (Lepidoptera: Tortricidae) in Portugal.</b>
P2	<u>PAJAC I., BARIC B.</u> <b>The behaviour of Codling moth in the Croatian apple orchards.</b>
P3	<u>BARIC B., PAJAC I.</u> <b>Tortrix pests in IPM apple orchard in Croatia.</b>
P4	RIVI M., CASSANELLI S., PASQUALINI E., CIVOLANI S., BUTTURINI A., BOSELLI M., <u>MANICARDI G.C.</u> <b>Biochemical and molecular monitoring of insecticide resistance in Codling moth populations collected in Emilia-Romagna (Italy) orchards.</b>
P5	MAZZONI E., CRAVEDI P., <u>ANACLERIO M.</u> , PANINI M. <b>Resistance mechanisms in <i>Dysaphis plantaginea</i>. Preliminary investigation on the detoxifying enzymes.</b>
P6	<u>ACIN P., ESCUDERO-COLOMAR L.A., DU FRETAY G., PALENCIA J.</u> <b>Efficacy in the management of <i>Ceratitis capitata</i> and <i>Zeuzera pyrina</i> by the use of pheromones and attractants in the Mediterranean region.</b>
P7	REGGIORI F., <u>RAMA F.</u> , ALBERTINI A., BOZZANO G., CROTTI A., RESTUCCIA P., MANCINI C. <b>Control of <i>Spodoptera littoralis</i> (Boisd.) by biodegradable sex pheromone dispensers.</b>
P8	<u>CIVOLANI S., LEIS M., PASQUALINI E., MUSACCHI S., TJALLINGII W. F.</u> <b>Feeding behaviour of <i>Cacopsylla pyri</i> on a resistant pear selection.</b>
P9	<u>CIVOLANI S., LEIS M., GONZÁLEZ E., PASQUALINI E., TJALLINGII W.F.</u> <b>Probing behaviour of <i>Cacopsylla pyri</i>: an electrical penetration study.</b>
P10	<u>PASQUALINI E., CIVOLANI S., VERGNANI S., PRADOLESI G., MELANDRI M., ZANZI L., PAGNI M., CASALI G.</u> <b>Side effects of some neonicotinoids on <i>Anthocoris nemoralis</i> (F.): field trials.</b>
P11	<u>PASQUALINI E., PRADOLESI G., MELANDRI M., ZANZI L., PAGNI M., CASALI G.</u> <b>Side effects of some neonicotinoids on <i>Anthocoris nemoralis</i> (F.): laboratory investigations.</b>
P12	<u>d'ERRICO G., GIACOMETTI R.</u> <b>The nematological problems of fruit crops.</b>
P13	<u>LUCCHI A., OGAWA K., VERONELLI V., POZZOLINI E., SAVINO F., OGURA K., GARGANI E., BAGNOLI B.</u> <b>Effect of alcohol component <i>E7,Z9-12OH</i> in the mating disruption of <i>Lobesia botrana</i>.</b>
P14	<u>GERMINARA G. S., d'ERRICO G., MARTINO L., DI PALMA A., DE CRISTOFARO A., ROTUNDO G.</u> <b>Olfactory response of <i>Dryocosmus kuriphilus</i> Yasumatsu to host plant volatiles.</b>
P15	<u>PEDRAZZOLI F., SALVADORI C., DE CRISTOFARO A., DI SANTO P., SABBATINI PEVERIERI G., ROVERSI P. F., QUACCHIA A., ALMA A., ZICCARDI A., ANGELI G.</u> <b>A novel approach to the environmentally safe control of the Chestnut Tortricid moths.</b>



**POSTER SESSION (II) - Thursday, 16 September 2010, 15.00**

S1	<u>CARUSO S.</u> , <u>LADURNER E.</u> , <u>BENUZZI M.</u> , <u>TAMAGNINI E.</u> , <u>GRANCHIETTI A.</u> , <u>SACCHETTI P.</u> <b>Evaluation of different strategies for the control of the European Cherry Fruit Fly in Emilia Romagna (Northern Italy).</b>
S2	<u>OZOLINA-POLE L.</u> , <u>APENITE I.</u> <b>Suitable methods for determination of cherry fruit fly (<i>Ragoletis cerasi</i> L.) flying out in Latvia.</b>
S3	<u>AL-MAZRA'AWI-ALALAWI M.S.</u> , <u>ATEYYAT M.A.</u> , <u>SHIPP J.L.</u> , <u>KEVAN P.G.</u> <b>A pollinator-vector approach for the management of <i>Tropinota squalida</i> Scopoli on cherries.</b>
S4	<u>BENELLI G.</u> , <u>RASPI A.</u> , <u>CANALE A.</u> <b>Behavioral responses of female Mediterranean Fruit Fly <i>Ceratitis capitata</i> (Wiedemann) (Diptera Tephritidae), to fruit volatiles stimuli.</b>
S5	<u>MOLINARI F.</u> , <u>CIGOLINI M.</u> <b><i>Anarsia lineatella</i> Zeller: age-related fecundity.</b>
S6	<u>ARDIZZONI M.</u> , <u>CARUSO S.</u> , <u>IODICE A.</u> , <u>VERONELLI V.</u> , <u>BASSANETTI C.</u> , <u>SAVINO F.</u> <b>Mating disruption for the control of Plum Fruit Moth <i>Cydia funebrana</i> (Treitschke) in Modena plum orchard, Emilia-Romagna region.</b>
S7	<u>MAZZONI E.</u> , <u>MOLINARI F.</u> , <u>ANACLERIO M.</u> , <u>PANINI M.</u> , <u>CIGOLINI M.</u> <b>Insecticide susceptibility of <i>Cydia molesta</i> population in Northern Italy.</b>
S8	<u>VILKA L.</u> , <u>VOLKOVA J.</u> , <u>EIHE M.</u> <b>The most harmful pathogens of cranberry and blueberry in Latvia.</b>
S9	<u>NICOLI ALDINI R.</u> <b>Lacewings as beneficial insects in orchards: findings on plum and cherry trees in Lombardy (Northern Italy).</b>
S10	<u>AMARASEAKE K.G.</u> , <u>SHEARER P.W.</u> , <u>BOREL A.A.</u> <b>Effects of newer insecticides on the natural enemy <i>Deraeocoris brevis</i> (Uhler) (Hemiptera Miridae).</b>
S11	<u>LANZONI A.</u> , <u>SANGIORGI L.</u> , <u>DE LUIGI V.</u> , <u>CONSOLINI L.</u> , <u>PASQUALINI E.</u> , <u>BURGIO G.</u> <b>Evaluation of chronic toxicity of four neonicotinoids to <i>Adalia bipunctata</i> L. (Coleoptera Coccinellidae) using a demographic approach.</b>
S12	<u>CANALE A.</u> , <u>CARPITA A.</u> , <u>CONTI B.</u> , <u>CANOVAI R.</u> , <u>RASPI A.</u> <b>Effects of age on 1,7-dioxaspiro-[5.5]-undecane production in both sexes of <i>Bactrocera oleae</i> (Rossi) (Diptera Tephritidae).</b>
S13	<u>MARIOTTI A.</u> , <u>RASPI A.</u> , <u>CANALE A.</u> <b>Host searching behaviour of <i>Psytthalia concolor</i> (Szépligeti) (Hymenoptera Braconidae): response to olive fruits infested by <i>Bactrocera oleae</i> (Rossi) (Diptera Tephritidae).</b>
S14	<u>BARATELLA V.</u> , <u>VOLPE D.</u> , <u>MARUCCHINI C.</u> , <u>PUCCI C.</u> <b>Early attempts to detect VOCs emission from <i>Olea europaea</i> L. in different phenological growth stages.</b>