

PROGRAMME

SUNDAY, 12 September 2010

20.00 ARRIVAL

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*

09.30	Authorities' welcome <i>Municipality of Vico del Gargano</i> <i>University of Molise</i> <i>University of Foggia</i>
09.45	Presentation of IOBC/WPRS organizational structure and function Jerry CROSS - <i>IOBC/WPRS liaison officer</i>
10.00	Meeting introduction 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>

10.15 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

11.00 COFFEE BREAK

SESSION 1 Codling moth: biological control and behaviour

Chairperson: Claudio IORIATTI

FEM-IASMA, Centre for Technology Transfer, S. Michele all'Adige, ITALY

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

12.30 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	Possibilities for the biological control of <i>Cacopsylla pyri</i> based on native natural enemies in the Southeast of Spain. Juan-Antonio SANCHEZ <i>I.M.I.D.A., La Alberca, SPAIN</i>
15.35	The role of Psyllids (Hemiptera: Psyllidae) as vectors of phytoplasmas in Austrian pome and stone fruits. Christa LETHMAYER <i>Austrian Agency for Health and Food Safety, Vienna, AUSTRIA</i>
15.55	Laboratory, semi-field and field studies to evaluate the effect of pesticides on Psyllids. 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	Biology and impact of the forest bug (<i>Pentatoma rufipes</i>) in pear and apricot orchards. Patrik KEHRLI <i>Station de Recherche Agroscope Changins-Wädenswil, Nyon, SWITZERLAND</i>
17.00	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.). Mazen ATEYYAT <i>Dept. of Plant Protection, Al-Balqa' Applied University, Al-Salt, JORDAN</i>
17.20	Seasonal occurrences and chemical control of Oyster scale, <i>Pseudaulacaspis cockerelli</i> (Diaspididae) in persimmon, <i>Diospyros kaki</i> in Korea. Bu-Keun CHUNG <i>Division of Plant Environment, Gyeongnam Agricultural Research and Extension Services, Jinju, KOREA</i>
17.40	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>. 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

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

11.40	Successes and challenges with adoption of whole farm mating disruption programs by commercial fruit growers in Eastern United States – a Pennsylvania perspective. Greg KRAWCZYK <i>Dept. of Entomology, Fruit Research and Extension Center, The Pennsylvania State University, Biglerville, PA, USA</i>
12.00	Management of the Sesiid Borer, <i>Synanthedon scitula</i> (Harr.) with mating disruption and mass trapping in apple orchards in Michigan, USA. David EPSTEIN <i>Dept. of Entomology, Michigan State University, East Lansing, MI, USA</i>
12.20	Use of Puffer[®] technology as mating disruption tool for pest control. Santiago MARTI <i>Suterra Europe Biocontrol, Cerdanyola del Vallès, SPAIN</i>
12.40	Mating disruption and toxic bait to control the Oriental fruit moth and the American fruit fly on peach orchards in Brazil. 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	Mechanisms of mating disruption: aerial pheromone concentration measured in disrupted orchards causes reduced male response to sexually receptive females in a pest tortricid moth. Mitch TRIMBLE <i>Southern Crop Protection & Food Research Centre, Agriculture and Agri-Food Canada, Vineland Station, ON, CANADA</i>
17.20	Novel mating disruption technologies and strategies for managing tree fruit pests. Larry GUT <i>Dept. of Entomology, Michigan State University, East Lansing, MI, USA</i>
17.40	Mating disruption by vibrational signals: theory and possible applications to Hemipteran pests. 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	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). Giovanni BENELLI <i>Dept. of Tree Sciences, Section Agricultural Entomology, University of Pisa, Pisa, ITALY</i>
10.35	<i>Rhagoletis cerasi</i> (L.) in Western Sicily: presence, damages and control in organic cherry orchards. Manuela PALUMBO PICCIONELLO <i>Dept. S.EN.FI.MI.ZO, University of Palermo, Palermo, ITALY</i>
10.55	Key biological and ecological characteristics of European cherry fruit fly <i>Rhagoletis cerasi</i> with relevance to management. 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	Electrophysiological and behavioural activity of plant volatile terpenes in three Tephritid Flies. Gianfranco ANFORA <i>FEM-IASMA, Research and Innovation Centre, S. Michele all'Adige, ITALY</i>
11.55	Electrophysiological and olfactory activity of orange VOCs on <i>Ceratitis capitata</i> (Wiedemann). Silvia VITAGLIANO <i>Dept. Animal, Plant and Environmental Sciences, University of Molise, Campobasso, ITALY</i>
12.15	Biological activity of <i>Citrus</i> spp. metabolites on <i>Ceratitis capitata</i> (Wiedemann). Nicoletta FARAONE <i>Dept. S.EN.FI.MI.ZO and Dept. of Organic Chemistry, University of Palermo, ITALY</i>
12.35	Insecticide improvements for use in mass trapping technique in <i>Ceratitis capitata</i> control. 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	Unique logistic model for simultaneous forecasting of major Lepidopterous peach pest complex. Petros DAMOS <i>Lab. of Applied Zoology and Parasitology, Aristotele University of Thessaloniki, GREECE</i>
17.00	Host plant differentiation in French populations of the oriental fruit moth, <i>Cydia molesta</i>. Myriam SIEGWART <i>INRA, UMR Plantes et Systèmes de culture Horticoles, Agroparc, Avignon Cédex, FRANCE</i>
17.20	Olfactory activity of Ethyl (E,Z)-2,4-decadienoate on Oriental Fruit Moth adults. Fabio MOLINARI <i>Inst. of Entomology and Plant Pathology, Università Cattolica del Sacro Cuore, Piacenza, ITALY</i>
17.40	<i>Bacillus thuringiensis</i> serovar <i>kurstaki</i> Strain EG2348 – A neglected tool for efficient Oriental Fruit Moth control. 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</i> ” <i>sub-group Coordinator</i> L. Adriana ESCUDERO-COLOMAR – “ <i>Pome Fruit Arthropods</i> ” <i>sub-group Coordinator</i> Claudio IORIATTI – “ <i>Integrated Protection of Fruit Crops</i> ” <i>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	Fruit biodiversity of traditional agricultural districts: the case of Gargano. Nello BISCOTTI <i>Dipartimento di Scienze Ambientali e delle Produzioni Vegetali, Università Politecnica delle Marche, Ancona, ITALY</i>
09.45	Technical excursion to typical citrus groves, monumental olive trees and ancient fruits orchards.

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

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

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