

## Symposium 3: Fruit Production Systems for Sustainable and Resilient Development

"Constantin Stere" Hall, P1

Monday, May 13

8.45-9.00	<b>Welcome</b>				
<b>Session I - Tomorrow's fruit tree – nursery production for future orchards -Chairs: Florin Stănică and Cosmin Mihai</b>					
9.00-9.30	S03	O-I	1	<b>Gennaro Fazio, Keynote speaker</b>	Rootstocks have been and will be a major component of successful, sustainable, and resilient fruit production
09.30-09.45	S03	O-I	2	Giuseppe Carlo Modarelli, Lucia Vanacore, Christophe El-Nakhel, Antonio Pannico, Matteo Giaccone, Youssef Roupheal, <b>Chiara Cirillo</b>	Counteracting water stress effects in hazelnut by plant stimulating peptides applications or mycorrhizae inoculation on potted young plants
09.45-10.00	S03	O-I	3	<b>Matteo Giaccone</b> , Elvira Ferrara, Danilo Cice, Giuseppe Modarelli, Lucia Vanacore, Antonello Bonfante, Pietro Rega, Assunta Esposito, Severina Pacifico, Chiara Cirillo, Milena Petriccione	Valorization of hazelnut shells as substrate component for nursery potted cultivation of GF677 rootstock
10.00-10.15	S03	O-I	4	<b>Mona Mazeh</b> , Nicola Cinosi, Damiano Marchionni, Daniela Farinelli, Franco Famiani	Use of biostimulants to improve the growth of young potted olive trees
<b>Session II - Rootstocks, cultivars, and planting systems -Chairs: Darius Kviklys and Dragan Radivojevic</b>					
10.15-10.45	S03	O-II	1	<b>Gregory A. Lang, Keynote speaker</b>	Future orchards: integrating the components of physiology, technology, genetics, and efficiency to achieve sustainable profitability and resilience
10.45-11.00	S03	O-II	2	<b>Gennaro Fazio</b> , Terence Robinson	History and New Releases from the Geneva® Apple Rootstock Breeding Program
11.00-11.30	<b>Coffee Break</b>				
11.30-11.45	S03	O-II	3	<b>Mekjell Meland</b> , Oddmund Froynes, Fuad Gasi, Radosav Cerovic, Milica Fotiric Aksic	Identifying successful pollinizers of the newly introduced apple cultivars 'Eden' and 'Fryd' in Norway
11.45-12.00	S03	O-II	4	<b>Miljan Cvetkovic</b>	Narrow vertical planar orchard canopies for European plum ( <i>Prunus domestica</i> L.) grown on vigorous rootstocks- advantages and limitations
12.00-12.15	S03	O-II	5	<b>Viorel Mitre</b> , Orsolya Borsai, Andreea Flavia Andrecan, Lehel Lukács	Growth and fruiting performance of some German plum varieties, in a high-density planting system
12.15-12.30	S03	O-II	6	<b>Federico De Angelis</b> , Veronica Giorgi, Monica Guizzardi, Massimo Basaglia, Davide Dradi, Andrea Torelli, Davide Neri	Root architecture and topography in high density pear orchard of Abbé Fétéf
12.30-12.45	S03	O-II	7	<b>Filipa Queirós</b> , Rui Sousa	Training systems for a super-high density almond orchard with 'Soleta' and 'Lauranne' cultivars
12.45-13.00	S03	O-II	8	<b>Luis Gonzalez Nieto</b> , Jaume Lordan, Gloria Avila, Joan Bonany, Terence Robinson, Joaquim Carbó	Evaluation of apple rootstocks under replant soils in Spain
13.00-14.00	<b>Lunch</b>				
14.00-14.15	S03	O-II	9	<b>Darius Kviklys</b> , Mekjell Meland, Inger Martinusen	Establishment of crop load levels for the newly introduced apple cultivars
14.15-14.30	S03	O-II	10	<b>Nicola Cinosi</b> , Stefania Urbani, Mona Mazeh, Damiano Marchionni, Daniela Farinelli, Maurizio Servili, Franco Famiani	Evaluation of the vegetative-productive characteristics of different international olive cultivars grown in rainfed conditions in a high-density orchard in central Italy
14.30-14.45	S03	O-II	11	<b>Javier Hidalgo Moya</b> , Juan Carlos Hidalgo Moya, Ana Leyva Bollero, Daniel Pérez Mohedano, Victorino Vega Macías	Different planting densities and pruning models in olive orchards
14.45-15.00	S03	O-II	12	<b>Martin Penzel</b> , Matthias Möhler	30 years of experience with Gisela rootstocks at the Education and Research Centre for Horticulture in Erfurt - Gisela 5 is still the most productive rootstock for sweet cherries
<b>Session III - Pre-harvest factors affecting post-harvest crop performance -Chairs: Mekjell Meland and Milica Fotiric Aksic</b>					
15.00-15.15	S03	O-III	1	<b>Stefano Musacchi</b> , Sara Serra	Bee exclusion as a method to increase 'WA 38' bloom return in Washington State
15.15-15.30	S03	O-III	2	<b>Gabino Reginato</b> , Sergio González, Victor Beyá-Marshall	Maximizing Japanese plum crop value: response of fruit size and yield efficiency to crop load for different cultivars and quality traits that determine fruit price
15.30-15.45	S03	O-III	3	<b>Luis Gonzalez Nieto</b> , Jaume Lordan, Gloria Vila, Joan Bonany, Joaquim Carbó	Evaluation of different treatments to reduce cuticle defects in 'Fuji' apple under Spanish conditions
15.45-16.00	S03	O-III	4	<b>Slavica Spasojevic</b> , Ljubica Milosevic, Jasminka Milivojevic, Cedo Oparnica, Dragan Radivojevic	The effect of different combinations of thinners and surfactants on fruit thinning of Golden Delicious apple
16.00-16.30	<b>Coffee Break</b>				
16.30-16.45	S03	O-III	5	<b>Francesco Maldera</b> , Natale Daniele Verzicco, Francesco Nicoli, Salvatore Camposeo	A non-microbial biostimulant influenced agronomical parameters in a Southern Italy olive tree orchard
16.45-17.00	S03	O-III	6	<b>Walter Dirksmeyer</b> , Hildegard Garming, Anja Kretzschmann, Sabine Ludwig-Ohm, Anika Muder, Ju-Kwang Yoon	SWOT Analysis and policy recommendations to support the Fruit and Vegetable Sector in Germany
17.00-17.05	S03	P-I	1	Luca Regni, <b>Roberto Calisti</b> , Arianna Cesarini, Primo Proietti	Generation and trading on the voluntary market of carbon credits from olive growing
<b>Poster session I - Tomorrow's fruit tree – nursery production for future orchards -Chairs: Miljan Cvetkovic and Larisa Gustavsson</b>					

17.05-20.00	S03	P-I	1	<b>Adelina Venig</b> , Florin Stanică	Fertilization, a significant factor on survival rate of grafting trees in the nursery
	S03	P-I	2	Luca Regni, Arianna Cesarini, Marco Spinelli, Manfredi Parasporo, Giovanni Sottilotta, Fulvio Porrovecchio, Milagros Torrús Castillo, <b>Primo Proietti</b>	Evaluation of the mulching attitude for potted olive trees of a blanket obtained from beached Posidonia
	S03	P-I	3	<b>Razvan Gheorghe Radu</b> , Mihai Botu, Gheorghe Achim	Preliminary results on improvement of hazelnut propagation through budding
	S03	P-I	4	Mihai Istrate, <b>Cristina Zlati</b> , Maria Apostol, Marius Dascalu, Marius Florea	Study Regarding the Influence of Grafting Method on Walnut grafting Success in Protected Spaces
<b>Poster session II- Living mulch and alternative solutions for soil management - Chairs: Miljan Cvetkovic and Larisa Gustavsson</b>					
17.05-20.00	S03	P-II	1	<b>Dominikus Kitemann</b> , Michael Beck, Johannes Werth, Anna-Lena Haug, Konni Biegert, Thomas Kuster, Annika Killer, Alexander Zimmermann	Influence of mulching materials on water storage capacity, weed control and growth of apple trees
	S03	P-II	2	Luca Regni, Damiano Marchionni, Livia Arcioni, Emanuele Toccaceli, Federico Sisani, Franco Famiani, Roberto Calisti, <b>Arianna Cesarini</b> , Primo Proietti	Evaluation of the environmental impact of two different soil management systems in olive growing through the Carbon Footprint analysis
	S03	P-II	3	Giuseppina Las Casas, Biagio F. Torrissi, Daria Costantino, <b>Elisabetta Nicolosi</b> , Alessio Giuffrida, Serena Camuglia, Filippo Ferlito	Agroecological practices applied in a young olive orchard in Southern Italy
	S03	P-II	4	<b>Eligio Malusa</b> , Ewa Furmanczyk, Malgorzata Tartanus	Flower strips as living mulches in young apple orchard: effect on the tree growth, and soil microbial activity and biodiversity
<b>Poster session III - Fruit tree physiology and climate change - Chairs: Miljan Cvetkovic and Larisa Gustavsson</b>					
17.05-20.00	S03	P-III	1	<b>Abelardo García Martín</b> , Luis Lorenzo Paniagua Simón, Cristina Aguirado Montero, Lourdes Rebollo Moyano, Fulgencio Honorio Guisado	Frost analysis in the main olive tree production areas of the Iberian Peninsula (1981-2020)
	S03	P-III	2	Laura Parra, Fernando Chiamolera, Virginia Pinillos, <b>Julian Cuevas González</b>	Partial inhibition of flowering in peach tree 'Dulciflora 2' by gibberellic acid applications
	S03	P-III	3	<b>Aleksandar Radovic</b> , Dragan Milatovic, Djordje Boskov, Ivana Bakic, Grujica Vico	Morphological characteristics of cherry fruit-bearing branches as an element for determining pomotechnical treatments
	S03	P-III	4	<b>Cristina Aguirado Montero</b> , Fulgencio Honorio Guisado, Luis Lorenzo Paniagua Simón, Abelardo García-Martín, Lourdes Rebollo Moyano	Climatic differentiation of olive-growing area in Extremadura (1990-2021), Southwestern Spain
	S03	P-III	5	<b>Daiki Matsumoto</b> , Kaho Masui, Xuexi Dou, Ryutarō Tao	Identification of the S-RNase binding pollen proteins in Prunus fruit trees
	S03	P-III	6	Emil Chitu, <b>Mirela Florina Calinescu</b> , Cristian Paltineanu, Ivona Cristina Mazilu, Florin Plaiasu	Correlation between Daily Trunk Diameter Oscillations, Weather Variables and Soil Water Potential for Redhaven Peach Tree Grown in Temperate Climate
	S03	P-III	7	<b>Fulgencio Honorio Guisado</b> , Cristina Agirado Montero, Luis L. Paniagua Simon, Lourdes Rebollo Moyano, Abelardo García Martín	Trend of optimal temperatures for carbohydrate synthesis and vegetative growth of olive trees in the PDOs of Extremadura, Spain
	S03	P-III	8	<b>Graham Dow</b> , Francesca Zuffa, Michaela Jung, Steven Yates, Carles Quesada-Traver, Andrea Patocchi, Bruno Studer	Interannual variation of stomatal traits in apple trees and the impact on environmental resilience
	S03	P-III	9	<b>Ioana-Mihaela Mihalcioiu</b> , Luis Olteanu, Andrei Florin, Ana Cornelia Butcaru, Cosmin Mihai, Florin Stanica	Pawpaw ( <i>Asimina triloba</i> L. Dunal) phenology stages under the influence of genotypes and local weather conditions
	S03	P-III	10	<b>Lourdes Rebollo Moyano</b> , Cristina Aguirado Montero, Fco. Javier Rebollo Castillo, Fco. Jesús Moral García, Fulgencio Honorio Guisado, Abelardo García Martín, Luis L. Paniagua Simón	Analysis of the spatial distribution of olive groves in Extremadura (Southwest Spain) using topographic variables
	S03	P-III	11	<b>Lourdes Rebollo Moyano</b> , Cristina Aguirado Montero, Fco. Jesús Moral García, Fco. Javier Rebollo Castillo, Fulgencio Honorio Guisado, Abelardo García Martín, Luis L. Paniagua Simón	Future Scenarios for Aridity in the Olive Groves within the Denomination of Origin for Extra Virgin Olive Oil in Extremadura, Southwestern Spain
	S03	P-III	12	<b>Luis Lorenzo Paniagua Simón</b> , Dolores García García, Cristina Aguirado Montero, Abelardo García-Martín, Fulgencio Honorio Guisado	Characterising olive winter dormancy in producing regions of Spain (1981-2022)
	S03	P-III	13	Lumin Zhang, Hiroshi Kamitakahara, Takuya Morimoto, <b>Akihiro Itai</b>	Stone cell formation and lignin biosynthesis in the pedicel of pears and apples
	S03	P-III	14	<b>Nesho Neshev</b> , Marieta Nesheva	Frost damages from bud burst to fruit set of apricot cultivars grown in southern Bulgaria
	S03	P-III	15	<b>Thiresia-Teresa Tzatzani</b> , Geogios Psarras	Can fruit drop on avocado trees ( <i>Persea americana</i> ) be prevented?
	S03	P-III	16	<b>Veronica Giorgi</b> , Francesco Belluccini, Federico De Angelis, Fabrizio Manzone, Antonio Russo, Elisa Marchetti, Maria Teresa Senatore, Lorenzo Governatori, Luca Zucchi, Davide Neri	Effect of foliar application of geomaterials on pear trees
	S03	P-III	17	<b>Giuliano Finetto</b>	The position of one year old shoots of apple tree can affect the chilling requirement of their tip buds
	S03	P-III	18	Veronica Giorgi, Matteo Zucchini, Alessio Vandi, <b>Enrico Maria Lodolini</b> , Davide Neri	Flowering and forced pollination in <i>Olea europaea</i> 'Ascolana tenera'

<b>Poster session IV - Protected fruit growing and hortivoltatics - Chairs: Miljan Cvetkovic and Larisa Gustavsson</b>					
17.05-20.00	S03	P-IV	1	<b>Anton Yordanov</b> , Sava Tabakov, Petya Ivanova, Galya Dobrevska, Manol Dallev	Influence of photoselective antihail nets on the sensory characteristics of fruits of the Florina apple cultivar
	S03	P-IV	2	<b>Sava Tabakov</b> , Petya Ivanova, Galya Dobrevska, Anton Yordanov, Manol Dallev, Nedyalka Rangelova	Influence of photoselective antihail nets on the physicochemical and biochemical parameters of the flesh of 'Florina' apple cultivar
	S03	P-IV	3	<b>Sava Tabakov</b> , Petya Ivanova, Galya Dobrevska, Anton Yordanov, Manol Dallev, Vangel Chilingirov	Influence of differently colored photoselective antihail nets on physical parameters of 'Pinova' fruits
<b>Poster session V - New pests and diseases and the resilience of future fruit systems - Chairs: Miljan Cvetkovic and Larisa Gustavsson</b>					
17.05-20.00	S03	P-V	1	<b>Cristina Moale</b> , Leinar Septar, Alexandru Oprita, Ion Caplan, Luana Iscru, Mihaela Baluta, Andreea Moga	The reaction of peach to the use of ecological methods to control pathogens and pests in the climatic conditions of Romania
	S03	P-V	2	<b>Lars Lehmborg</b> , Chandrasekhar Neelapooja, Michael Zoth, Dominikus Kitemmann	Beneficial insects in fruit production: Reducing dispersal activity of beneficial insects by increasing orchard attractivity
	S03	P-V	3	<b>Madalina Gherghel</b> , Cristina Turcu, Simona Florea Chelaru, Ionel Perju, Sorina Sirbu, Agurita Aftudor Manolache, Elena Iurea	Observations on the influence of climate conditions on the biology of the apple worm -Lepidoptera- Tortricidae, in the conditions of the North-East of Romania
	S03	P-V	4	<b>Marioara Trandafirescu</b> , Liliana Miron, Ana Cornelia Butcaru	Identification and symptomatology of apricot Chlorotyc Leafroll Phytoplasma
	S03	P-V	5	<b>Florin Cristian Marin</b> , Mirela Florina Calinescu, Mihaela Sumedrea, Emil Chitu	Durable use of fungicides for integrated control of some pathogens in apple orchards from Romania
	S03	P-V	6	<b>Mona Mazeh</b> , Chiaraluce Moretti, Roberto Buonauro, Leen Almadi, Nicola Cinosi, Franco Famiani, Benedetta Orfei, Anna Scian, Michela Paglialonga	Effectiveness of foliar treatments with a blend of low copper titer and inducer resistance compounds for the control of <i>Pseudomonas savastanoi pv. Savastanoi</i> , the casual agent of olive knot disease
	S03	P-V	7	<b>Petre Gheorghe</b> , Bolbose Cecilia, Cezarina Necula	Contributions to limiting the attack of the skin moth ( <i>Adoxophyes reticulana</i> Hb.) through specific methods of integrated control
	S03	P-V	8	<b>Robert Veberic</b> , Jerneja Jakopic, Metka Hudina, Mariana Cecilia Grohar	Effect of spider mite on <i>Malus domestica</i> Borkh. leaf performance and fruit quality

**Tuesday, May 14**

8.00-19.00 **Technical Tours**

**Wednesday, May 15**

**Session IV - Fruit tree physiology and climate change - Chairs: Luca Corelli Grappadelli and Metka Hudina**

09.00-09.30	S03	O-IV	1	<b>Ted M. DeJong, Keynote speaker</b>	Do plant "growth regulators" really regulate growth? Plant development and plant growth are not synonymous
09.30-09.45	S03	O-IV	2	<b>Berta Gonçalves</b> , Sandra Pereira, Vânia Silva, Francisco Guedes, Carlos Ribeiro	Cracking patterns in sweet cherries: A correlation analysis with quality attributes
09.45-10.00	S03	O-IV	3	<b>Christine Schmitz</b> , Johannes Kopton, Katja Schiffers, Eike Luedeling	Evaluation of frost risk during apple bloom in Germany
10.00-10.15	S03	O-IV	4	<b>Giuliano Finetto</b>	Endo-dormancy period of in some apple cultivars is affected by fall and winter rainfall during a decade of investigation
10.15-10.30	S03	O-IV	5	<b>Daniela A. Hey</b> , Christian Andergassen, Magdalena Peterlin, Daniel Pichler, Giovanni Peratoner, Peter Robatscher, Massimo Tagliavini	Pneumatic defoliation increases the anthocyanin content in the peel of bicolored apple cultivars 'Nicoter' and 'Rosy Glow'
10.30-10.45	S03	O-IV	6	<b>Ji-Hong Liu</b>	Transcriptional regulation of sugar metabolism in citrus under cold stress
10.45-11.00	S03	O-IV	7	<b>Giuliano Finetto</b>	The effects of the summer and fall temperatures on bud endo-dormancy of some apple cultivar trees in a temperate climate
11.00-11.30	<b>Coffee Break</b>				
11.30-11.45	S03	O-IV	8	<b>Lars Zimmermann</b> , Nikos Tsoulias, Eike Luedeling	Analysis of the leaf-area-to-fruit ratio in apple tree training systems using a mobile LiDAR laser scanner
11.45-12.00	S03	O-IV	9	<b>Lourdes Rebollo Moyano</b> , Cristina Aguirado Montero, Fco. Javier Rebollo Castillo, Fco. Jesús Moral García, Fulgencio Honorio Guisado, Abelardo García Martín, Luis L. Paniagua Simón	Spatiotemporal Assessment of Olive Crop Dormancy Conditions in Extremadura (Southwest Spain) Using the NDTR Index
12.00-12.15	S03	O-IV	10	<b>Madalina Butac</b> , Emil Chitu, Ivona Mazilu	The impact of climate changes on the plum species in the Southern part of Romania
12.15-12.30	S03	O-IV	11	<b>Victor Beyá</b> , Thomas Fichet	Plant growth regulators for improving citrus production: Chilean experience
12.30-12.45	S03	O-IV	12	María Martínez, Virginia Pinillos, <b>Julian Cuevas González</b>	Effect of bumblebee pollination on fruit quality in extra-early season nectarine orchard
13.00-14.00	<b>Lunch</b>				

**Session V- Water and nutrition for sustainable fruit production -Chairs: Franco Famiani and Mădălina Butac**

14.00-14.15	S03	O-V	1	<b>Maria Paula Simoes</b> , Abel Veloso, Dora Ferreira, Anabela Barateiro, Cristina Ramos, Sandra Lopes, Preciosa Fragoso, Paulo Silvino, Francisco Vieira, Isabel Castanheira	Soil enzymatic activity in first life period of peach orchards from central Portugal
14.15-14.30	S03	O-V	2	<b>Arturo Calderón-Orellana</b> , Macarena Gerding, Gabriela Huepe, Gonzalo Plaza-Rojas, Andrés Olivos, Mauricio Calderón-Orellana and Tomás Labbé	Deficit irrigation in French prunes (Prunus persica L. cv. French): Physiological, productive and soil microbiological comparison between super-high and low density orchards in Mediterranean climate conditions
14.30-14.45	S03	O-V	3	<b>Giovanni Gamba</b> , Dario Donno, Simone Contu, Maria Gabriella, Gabriele Loris Beccaro	Sustainability in apple cultivation through a circular approach: assessing the potential of pelleted pig slurry as a viable alternative to mineral fertilizers
14.45-15.00	S03	O-V	4	<b>Kaies Mezrioui</b> , Samuele Crescenzi, Matteo Zucchini, Veronica Giorgi, Enrico Maria Lodolini, Davide Neri	Effect of a bio-organic fertilizer on the growth of pomegranate plantlets
15.00-15.15	S03	O-V	5	<b>Leonardo Conti</b> , Liliana Gaeta, Michele Giannini, Silvia Seripierri, Anna D'Onghia, Andrea Mazzeo, Pasquale Losciale	Scouting ecophysiological variables for managing Regulated Deficit Irrigation in almond
15.15-15.30	S03	O-V	6	<b>Arturo Calderón-Orellana</b> , Andrés Olivos, Mauricio Calderón-Orellana, Pedro Puentes and Nataly Hermosilla	Use of a plant microtensiometer to improve water productivity in deficit-irrigated sweet cherry trees under Mediterranean climate conditions
15.30-15.45	S03	O-V	7	<b>Katja Hora</b> , Harmen Tjalling Holwerda	Another tool to improve resilience to HLB ? Improvement of root growth of Valencia oranges with addition of potassium nitrate and iodine in fertigation
15.45-16.00	S03	O-V	8	<b>Martin Penzel</b> , Claudia Kuhaupt, Maria Bamberg, Silvia Krug	Mulching tree row with spent mushroom substrate enhances crop value and irrigation water use efficiency in sweet cherry

**Session VI- Living mulch and alternative solutions for soil management -Chairs (tbc): Eligio Malusa and Michael Blanke**

16.00-16.15	S03	O-VI	1	<b>Nesho Neshev</b> , Marieta Nesheva, Mariyan Yanev, Stella Dinova	Study of weed control methods in plum orchard
16.15-16.30	S03	O-VI	2	<b>Veronica Giorgi</b> , Enrico Maria Lodolini, Davide Neri, Federico De Angelis, Kaies Meziouri	Living mulch under the row as a tool for sustainable soil management in orchards
16.30-16.45	S03	O-VI	3	<b>Vasileios Gkisakis</b> , Anais Gallenne, Petros Diamantis, Christos Karamitsios	Agroecological strategies for table olive production in Greece: increasing sustainability and resilience through an integrated approach
16.45-17.00	<b>Coffee Break</b>				

**Session VII- Protected fruit growing and hortivoltaics -Chairs (tbc): Eligio Malusa and Michael Blanke**

17.00-17.15	S03	O-VII	1	<b>Michael Blanke</b>	Recovering plastics in horticulture - on the way to sustainability
17.15-17.30	S03	O-VII	1	<b>Viviana Tudela</b> , Juan Soto, Catalina Pinto	Artificial shading effects on winter chilling accumulation in sweet cherry cv. Santana: A case study

17.30-17.45	S03	O-VII	2	<b>Damian Dragomir</b> , Dragos Vasile Ofrim, Catalin-Viorel Oltenacu, Cristian Calinita, Dragos Bogdan Ofrim, Dragos Mihai Ofrim, Madalina Ioana Ofrim	Engineering Hortivoltaic systems for solar-protected berry crops
17.45-18.00	S03	O-VII	3	<b>Francesco Reyes</b> , Giuseppe Manuele, Giuseppe Starace, Milena Poledica	Effects of a rain exclusion cover on microclimate, wetness duration and fruit cracking in a cherry orchard in Northern Italy
18.00-18.15	S03	O-VII	4	<b>Richard Bastias</b> , Ignacio Urrea , Constanza Meza	Improvement the Fruit Growth by Photo-selective Covers in Protected Cherry Orchards
18.15-18.30	S03	O-VII	5	<b>Richard Bastias</b> , Ignacio Urrea, Constanza Meza, Esteban Gonzalez	Photo-selective netting as a tool to regulate the floral phenology of hazelnut orchards under changing environments

**Thursday, May16**

**Session VIII- New pests and diseases and the resilience of future fruit systems -Chairs: Mirela Călinescu and Danilo Christen**

09.00-09.15	S03	O-VIII	1	<b>Danilo Christen</b> , Myriam Emin, Martina Louw-Prevost, Elisabeth Lutz, Diana Zwahlen, Loredana Storno	Alternative plant protection strategies in fruit growing from agronomic, economic and environmental perspectives
09.15-09.30	S03	O-VIII	2	<b>Melissa Venturi</b> , Cristiano Franceschini, Andrea Giovannini, Sara Berzuini, Rafael Dreux, Adele Bordoni, Federica Zanetti, Fabio Sgolastra, Brunella Morandi	Increasing orchard biodiversity for a resilient fruit production
09.30-09.45	S03	O-VIII	3	<b>Milica Fotiric Aksic</b> , Cedo Oparnica, Gordan Zec, Marko Kitanovic, Radenko Radosevic, Mekjell Meland	What makes pear leaves resistant to Psylla sp.? Anatomy of lamina, midrib and primary veins in some Pyrus sp. cultivars
09.45-10.00	S03	O-VIII	4	<b>Sophie Richter</b> , Monika Höfer, Andreas Peil, Henryk Flachowsky, Thomas Wöhner	Unraveling the mechanism of resistance to apple blotch through genome-wide association studies

**Poster session VI - Water and nutrition for sustainable fruit production -Chairs: Franco Famiani and Mădălina Butac**

10.10-11.00	S03	P-VI	1	<b>Ana Maria Tomescu</b> , Cosmin-Alexandru Mihai, Ana Cornelia Butcaru, Adrian George Peticila, Elena Ivan	Research on organic waste from some horticultural farming vermicomposting
	S03	P-VI	2	<b>Damian Dragomir</b> , Mihaela Cecilia Dogaru, Catalin-Viorel Oltenacu, Andreea Mihaela Udrea-Brasla, Mihaela Postolici-Ursachi, Cristian Calinita	Preliminary results regarding the influence of the application on strawberry of some authorised products for organic agriculture
	S03	P-VI	3	<b>Dominikus Kitemann</b> , Johannes Werth, Michael Beck	Optimizing demand based irrigation control in apple orchards
	S03	P-VI	4	<b>Dominikus Kitemann</b> , Michael Beck, Johannes Werth, Anna-Lena Haug, Konni Biegert, Thomas Kuster, Annika Killer, Alexander Zimmermann	Influence of soil additives on water storage capacity and growth of apple trees
	S03	P-VI	5	<b>Enrico Maria Lodolini</b> , Matteo Zucchini, Samuele Crescenzi, Veronica Giorgi, Francesco Belluccini, Davide Neri	Irrigation plan for the olive tree during summer in central Italy
	S03	P-VI	6	<b>Leinar Septar</b> , Cristina Moale, Corina Gavat, Alexandru Oprita, Ion Caplan, Luana Iscru, Andreea Moga, Mihaela Baluta	Apricot performance under foliar application of Cropmax under the changing climatic conditions of South-Eastern Romania
	S03	P-VI	7	<b>Michael Zoth</b> , Cora Bihl, Dominikus G. Kitemann	Combined Calcium fertilisation on apples via soil application and foliar sprayings to reduce bitter pit
	S03	P-VI	8	<b>Veronica Giorgi</b> , Matteo Zucchini, Matteo Menna, Enrico Maria Lodolini, Davide Neri	Localized amendment in medium density olive orchard
11.00-11.30	<b>Coffee Break</b>				

**Poster session VII - Pre-harvest factors affecting post-harvest crop performance -Chairs: Franco Famiani and Mădălina Butac**

11.30-12.30	S03	P-VII	1	<b>Alexandru Bucur</b> , Cosmin Mihai, Ana Cornelia Butcaru, Florin Stanica	Maturity dynamics of peach and nectarine fruits measured with Da-meter
	S03	P-VII	2	Ana Cornelia Butcaru, <b>Mituko Ionela Vlad</b> , Gina Fintineru, Liliana Aurelia Badulescu, Florin Stanica, Cosmin A. Mihai	Use of the Life Cycle Assessment as a tool to decide on scenarios built for an organic apple orchard
	S03	P-VII	3	<b>Ana Silva</b> , Luis Pinto, Silvia Afonso, Ivo Oliveira	Impact of algae-based biostimulants on almond attributes
	S03	P-VII	4	<b>Anka Cebulj</b>	Metabolite and oxidation rate during the growth period of non-browning apple variety 'Majda'
	S03	P-VII	5	<b>Anton Yordanov</b> , Violina Angelova, Sava Tabakov	Hazardous element content and consumption risk of apple cultivars grown on contaminated soil
	S03	P-VII	6	<b>Dragan Radivojevic</b> , Slavica Spasojevic, Nemanja Tesic, Cedo Oparnica, Jasminka Milivojevic	Effect of pruning on productivity and fruit quality of re-grafted Gala apple
	S03	P-VII	7	<b>Iwona Szot</b> , Tomasz Lipa	Effect of plant growth regulators on the yield and fruit quality of apple tree cv. 'Red Chief'
	S03	P-VII	8	<b>Marta Czaplicka</b> , Ewelina Gudarowski, Barbara Zarowska, Xymena Polomska, Adam Szewczuk, Jan Krezel	The use of preparations containing killer toxins from yeast Debaryomyces hansenii to support the regeneration of fruit after hail damage
	S03	P-VII	9	<b>Larisa Gustavsson</b> , Dalphy O.C. Hartevelde, Tuuli Haikonen, Marja Rantanen, Petteri Karisto, Nina Sevelius, Neringa Rasiukeviciute, Alma Valiukaite, Juozas Lanauskas, Priit Pldma, Evelin Loit, Matis Moks, Ulvi Moor	InNoBaHort - a Nordic-Baltic project to tackle challenges in horticultural production
	S03	P-VII	10	<b>Nemanja Tesic</b> , Boban Djordjevic, Dragan Radivojevic, Cedo Oparnica, Dragan Milatovic, Djordje Boskov, Milana Stojanoski	Effect of prohexadion-Ca and paclobutrazol on vegetative and reproductive characteristics of hazelnut cultivar 'Tonda di Giffoni'
	S03	P-VII	11	<b>Nenad Magazin</b> , Biserka Milic, Zoran Keserovic, Maja Milovic, Jelena Kalajdzic, Gordana Barac, Stefan Gligoric	The application of bioregulators and the selection of rootstock aim to improve the quality of apricot fruit
	S03	P-VII	12	<b>Nenad Magazin</b> , Biserka Milic, Zoran Keserovic, Maja Milovic, Jelena Kalajdzic, Gordana Barac, Stefan Gligoric	Application of bioregulators in controlling overgrowth and increasing plum productivity
	S03	P-VII	13	<b>Pesteanu Ananie</b> , Balan Valerian, Manziuc Valerii, Cumpănici Andrei, Calestru Oleg	Effect of 1-naphthaleneacetic acid on preharvest drop and quality of 'Gala must' and 'Idared' apple cultivars
	S03	P-VII	14	Vasile Stoleru, <b>Mariana Rusu</b> , Irina Gabriela Cara, Manuela Filip, Denis Topa, Gerard Jitareanu	Health risk assessment of heavy metals in plum fruits from Northeast Region of Romania

**Poster session VIII - Rootstocks, cultivars and planting systems -Chairs: Gregory Reighard and Zsolt Jakab-Ilyefalvi (The Labor Comission Hall) - Parallel session**

09.00-11.00	S03	P-VIII	1	<b>Lucian Cioaca</b> , Florin Stanică, Andrei Mot, Violeta Ion, Carmen Gabriela Manole, Aurora Dobrin	Pomological and biochemical characterization of some new almond cultivars fruits
	S03	P-VIII	2	<b>Petre Gheorghe, Ercolescu Mihaela</b>	Completing the assortment with new varieties of pears obtained at SCDP Voinești
	S03	P-VIII	3	<b>Cristina Zlati</b> , Mihai Istrate, Roxana Pascu	The Opportunity For Cultivation of Exotic Species In Temperate Regions In The Conditions Of Climate Change
	S03	P-VIII	4	<b>Daina Feldmane</b> , Gundega Sebre	The field performance of sweet cherry cultivars 'Paula' and 'Artis' on the trees with restricted height
	S03	P-VIII	5	<b>Damian Dragomir</b> , Mihaela Postolici-Ursachi, Catalin-Viorel Oltenacu, Andreea Mihaela, Cristian Calinita	The influence of cultivation technology on quality indices of 2 cherry varieties cultivated in the pedoclimatic zone of the Vlasia plain
	S03	P-VIII	6	<b>Djordje Boskov</b> , Dragan Milatovic, Gordana Zec, Aleksandar Radovic, Nemanja Tesic, Milana Stojanoski	Influence of cultivar/rootstock combination on the frequency and morphological characteristics of fruiting branches in sweet cherry
	S03	P-VIII	7	<b>Dominikus Kitemann</b> , Angelina Limmer, Johannes Werth, Michael Beck	Optimizing demand based irrigation control in apple orchards
	S03	P-VIII	8	Dorel Hoza, Ligia Ion, Narcis Dirmina, <b>Claudia Dragomir</b> , Gheorghita Hoza	Research on the cold tolerance of some apricot varieties in Bucharest area
	S03	P-VIII	9	<b>Dragan Nikolic</b> , Aleksandar Radovic, Vera Rakonjac, Dragan Milatovic	Characteristics of the newly created late peach cultivar 'Rosa'
	S03	P-VIII	10	<b>Dzintra Dekena</b> , Daina Feldmane	Rootstock effect on sour cherry cv. 'Zentenes' tree growth and health
	S03	P-VIII	11	<b>Frane Strikic</b> , Katarina Vuckovic, Alexandre Goncalves, Luis Pinto, Vedran Poljak, Josip Gugic, Mario Bjeli	Sustainable almond cultivation in the Mediterranean region
	S03	P-VIII	12	<b>Gregory L. Reighard</b> , Lichun Cai, Alejandro Calle, Jeff Adelberg, Christopher Sasaki, Ksenija Gasic	Prunus rootstock breeding, gene discovery and field testing for Armillaria root rot resistance in South Carolina
	S03	P-VIII	13	<b>Ionel Perju</b> , Iulia Mineata, Sorina Sirbu, Iuliana Elena Golache, Elena Iurea, Carmen Doina Jitareanu	The impact of climatic conditions on the phenology and physiology of some Prunus avium L. cultivars from the North-East of Romania
	S03	P-VIII	14	<b>Iva Prgommet</b> , Eni Basanze, Tihomir Peraic, Zeljko Prgommet	Preliminary study: Performance of two olive cultivars well-adapted to SHD orchards in conditions of Istria (Croatia)
	S03	P-VIII	15	<b>Lucian Cioaca</b> , Florin Stanica	The behaviour of some new almond cultivars in northern Dobrogea
	S03	P-VIII	16	<b>Madalina Gherghel</b> , Cristina Turcu, Mihai Istrate, Sorina Sirbu, Elena Iurea, Simona Florea Chelaru, Ionel Perju	Impact of environmental factors on the growth and fructification of some walnut varieties in Romania's North-East area
	S03	P-VIII	17	<b>Manziuc Valerii</b> , Balan Valerian, Pesteanu Ananie, Fedorchukov Ilia	Influence of the rootstock on the growth of the root system, yield and quality of sweet cherry fruits
	S03	P-VIII	18	<b>Mariusz Lewandowski</b> , Sylwia Keller-Przybylkowicz, Agnieszka Walencik, Krzysztof Strojny	The productive value of new apple (Malus domestica Borkh.) genotypes bred at the National Institute of Horticultural Research, Skierniewice, Poland
	S03	P-VIII	19	<b>Mekjell Meland</b> , Milica Fotiric Aksic	Quality assessments of some apple cultivars grown under organic system in Norway
	S03	P-VIII	20	<b>Mihaela Cecilia Dogaru</b> , Nicoleta Oltenacu, Mihaela Postolici-Ursachi, Andreea Mihaela Udrea-Brasla, Cristian Marian Calinita, Damian Dragomir	Influence of planting distances on the size and quality of nectarine fruit in the soil and climatic conditions of southern Romania
	S03	P-VIII	21	<b>Mihaela Postolici Ursachi</b> , Catalin Viorel Oltenacu, Andreea Mihaela Udrea-Brasla, Mihaela Cecilia Dogaru, Nicoleta Oltenacu	The influence of some technological factors on some quality indices of 2 cherry varieties cultivated in the pedoclimate conditions of the South - East area of Romania
	S03	P-VIII	22	<b>Martin Penzel</b>	Current status, opportunities and challenges for hazelnut production in Germany
	S03	P-VIII	23	<b>Nenad Magazin</b> , Stefan Gligoric, Biserka Milic, Zoran Keserovic, Maja Milovic, Jelena Kalajdzic, Gordana Barac	Productivity and vigor of gala apple clones on M9 and B9 rootstock
	S03	P-VIII	24	<b>Nicola Cinosi</b> , Stefania Urbani, Mona Mazeh, Damiano Marchionni, Daniela Farinelli, Maurizio Servili, Franco Famiani	Evaluation of the vegetative-productive behavior of different olive cultivars for their adaptability to high-density cultivation
11.00-11.30	<b>Coffee Break</b>				
11.30-12.30	S03	P-VIII	25	<b>Olimpia Alina Iordanescu</b> , Lia Constantin Teregan, Isidora Radulov, Ionut Dascalu, Daniela Scedei, Tamara Edina Gal	Research regarding the influence of the cultivar/rootstock combination on the chemical composition of the fruits of some lesser-known peach genotypes, grown in the pedoclimatic conditions of the western part of Romania
	S03	P-VIII	26	<b>Orsolya Borsai</b> , Andreea Flavia Andreacan, Lehel Lukács, Mirela Cordea, Sandor Rozsa, Viorel Mitre	Morphological characteristics and fruit quality traits of three non-native plum cultivars grown in Cluj-Napoca
	S03	P-VIII	27	<b>Pavol Suran</b>	Evaluation the frost tolerance of new apricot accessions
	S03	P-VIII	28	<b>Anita Kuras</b> , Marek Szymajda, Boguslaw Idczak, Krystyna Straczynska, Renata Czarnecka	Use of biotechnological methods in sweet cherry ( <i>Prunus avium</i> L.) breeding at the National Institute of Horticultural Research, Skierniewice, Poland
	S03	P-VIII	29	<b>Pavol Suran</b> , Tereza Bydovská	Evaluation the frost tolerance of new plum accessions
	S03	P-VIII	30	<b>Petre Gheorghe</b> , Comănescu Daniel Nicolae, Gavrila Marian Florin	Contributions and perspectives to the promotion of apple varieties with disease resistance in modern cropping systems
	S03	P-VIII	31	<b>Marek Szymajda</b> , Anita Kuras, Lukasz Seliga, Agnieszka Glowacka	Growth vigour and fruit yield of new sharka-resistant plum ( <i>Prunus domestica</i> L.) genotypes bred at the National Institute of Horticultural Research in Skierniewice, Poland
	S03	P-VIII	32	<b>Petre Gheorghe</b> , Gavrila Marian Florin	Apple elites with disease resistance selected from hybrid combinations made at SCDP Voinești
	S03	P-VIII	33	<b>Ruxandra Gogot</b> , Ana Cornelia Butcaru, Cosmin Mihai, Florin Stanica, Dorel Hoza	Romanian pear cultivars' behaviour in the Bucharest area

S03	P-VIII	34	Sava Tabakov, <b>Anton Yordanov</b>	Study of the influence of apple rootstocks M9-T337 and Supporter 4 Pi 80 on the growth and productivity of Granny Smith cultivar grown in South Bulgaria
S03	P-VIII	35	<b>Sergiu Popa</b> , Ion Ribintev, Valerii Manziuc, Anatol Macari, Nina Putuntean	Comparative study on the productivity and quality of the sweet cherry fruits depending on the cultivar and growing conditions in the Republic of Moldova
S03	P-VIII	36	<b>Sina Cosmulescu</b> , Florentina Calusaru	Variability of morphological characteristics in fruits of Prunus spinosa depending on environmental factors
S03	P-VIII	37	<b>Thiresia-Teresa Tzatzani</b>	Carob cultivation in Greece – development and possibilities
S03	P-VIII	38	<b>Darius Kviklys</b> , Aurita Butkeviciute-Braciuliene, Juozas Lanauskas, Nobertas Uselis, Valdimaras Janulis	Increase of apple fruit phenol content in ARD soils depends on rootstock genotype
S03	P-VIII	39	<b>Edgars Rubauskis</b> , Laila Ikase	Advantages of orchard systems for perspective cultivar candidates in the Nordic climate
S03	P-VIII	40	<b>Zsolt Jakab-Ilyefalvi</b> , Larisa-Daniela Vlasin, Anca Chiorean, Smaranda Rosu-Mares	Research regarding early, vegetative and generative development features of 'Tamara' sweet cherry cultivar on 'GiSeIA 3' and 'GiSeIA 5' rootstocks in irrigated mollic eutricambosol in Northern Transylvania, Romania
12.30-12.45	<b>YMA Ceremony</b>			
12.45-13.00	<b>Closing Ceremony</b>			