

**Symposium 16: INNOVATIVE PERENNIAL CROPS MANAGEMENT**

*This program is provisional and may be subject to change.*

		<b>Session 1 - Innovations in digital, technics and modeling</b>		
Wednesday 17	08:30	<b>Keynote: Agrivoltaics systems: an innovative technique to protect fruit trees from climate change</b>	<b>Gerardo Lopez Velasco, Sunagri, France</b>	
	09:00	Mapping horticulture tree crops in Australia	Graig Shephard, University of New England, Australia	
	09:15	Modelling fruit trees in agroforestry systems: an attempt to upscale from tree to system scale	Nicolas Barbault, INRAE, France	
	09:30	Studying spatial variability of fruit size within the tree canopy with a functional-structural plant model	Inigo Auzmendi QAAFI - Centre for Horticultural Science	
	09:45	A model of water and carbohydrate transport in fruit-bearing apple tree branches: effect of pruning	Gerhard Buck-Sorlin, Institut Agro IRHS, France	
	10:30	Analysis and modelling of tree shading impacts on apple fruit quality: Case study with an agrivoltaic	Perrine Juillion, Sunagri, France	
	10:45	Light detection and ranging (LiDAR) to characterise apple tree canopies	Nils Siefen, Sorten und Lehrgärten, Germany	
			<b>Session 2 - Innovations in plant materials</b>	
	11:00	Behaviour of hazelnut cultivars in the eco-pedoclimatic conditions of the Bucharest area	Florin Stanica, University of Agronomic Sciences, Romania	
	11:15	Advances in Precision Crop Load Management of Apple	Terence Robinson, Geneva, USA	
11:30	Innovation in Tree Fruit Production System Sustainability Through Horticultural Engineering: Case Study	Gregory A. Lang, Michigan State University, USA		
11:45	Foliar Calcium applications and crop load regulation in sweet cherry (Prunus avium L.) trees trained in a high-density orchard	Marlene Ayala, Facultad de Agronomía e Ingeniería Forestal, Chile		
12:00	Challenges for developing high-density mango orchards	Frederic Normand, CIRAD, France		
12:15	Variability of mango tree production (cv. 'Kent') in Northern Ivory Coast	Jean Mathias Koffi, Korhogo, Ivory Coast		
Thursday 18	10:30	Involvement of auxin in the control of annual flowering by fruit load	Avi Sadka, The Volcani Center, Israel	
	10:45	Growth unit characteristics and light environment affect leaf fall in the evergreen mango tree	Emma Carrié, CIRAD, France	
	11:00	Assessing carbon sequestration and its within-vine allocation in the vineyard	Leonardo Montagnani, Piazza Università, Italy	
	11:15	Apple russeting: the contribution of vascular and transpiration flows in the early fruit growth development	Luigi Manfrini, University of Bologna, Italy	
	11:30	Unifying Concepts for Understanding Fruit Trees	Ted M. DeJong, UC Davis, USA	
	11:45	Effects of harvest time on maturity, fruit quality, and consumer acceptance of WA 38 apples	Sara Serra, Washington State University, USA	
	12:00	Uniformity of fruit maturity and quality from different wood types within dwarfed kiwifruit canopies	Adam Friend, Plant&Food Research, New Zealand	
	12:15	Productive performance of Geneva-series rootstocks in Gala and Fuji cultivars under replanting conditions	Leo Rufato, Bairro Universitário, Brazil	
	15:30	Field Testing Prunus Rootstocks in South Carolina for Peach Tree Short Life and Armillaria Tolerance	Gregory L. Reighard, Clemson University, USA	
	15:45	Enhancing yield efficiency and fruit quality in citrus through use of tetraploid rootstocks	Ute Albrecht, University of Florida, USA	
		<b>Session 3 - Innovations in horticultural systems</b>		
	16:00	<b>Keynote: The effect of a mild winter climate (low chill accumulation) on apple production and how this can be mitigated</b>	<b>Karen I. Theron, University of Stellenbosch, South Africa</b>	
	16:30	The effect of environment and canopy manipulation on the development of red flesh colour in apple	Ken Breen, Plant&Food Research, New Zealand	
	16:45	Towards a new generation of cider apple orchards in the Northeastern United States	Gregory Peck, Cornell University, USA	
Friday 19	10:30	Influence of summer pruning in combination with pneumatic preharvest-defoliation on the light environment	Christian Andergassen, Laimburg, Italy	
	10:45	Plant growth regulators to increase fruit set on two different 'Williams' pear orchards in Uruguay	Bruno Carra, INIA, Uruguay	
	11:00	Irrigation during ripening may reduce sunburn damages on berries of cv. Sangiovese (Vitis vinifera)	Gianluca Allegro, University of Bologna, USA	
	11:15	The Maryland Tree Architecture Project (MD-TAP): altering apple-tree phenotype to reduce tree size	Christopher S. Walsh, University of Maryland, USA	
	11:30	Protected cropping of sweet cherry: Microclimate and fruit quality	Cameron Stone, University of Tasmania, Australia	
	11:45	Pomological performance of a 2-dimensional planar cordon apple orchard	Ben van Hooijdonk, Plant&Food Research, New Zealand	
	12:00	Multi-Year Evaluation of Insect Exclusion Netting on Apple Fruit Set and the Carry-Over Effect on Secondary Insects	Mokhles Elsysis, Michigan State University, USA	
	12:15	Apple replant disease - new insights into an old problem	Traud Winkelmann, Leibniz Universität Hannover, Germany	
	15:30	Adaptability of apple, plum and cherry genotypes to diverse South African growing conditions	Esme Louw, Stellenbosch University, South Africa	
	15:45	Trunk injection of plant protection product to protect chestnut tree from fruit borers Cydia splendana	Florence Verpont, Ctifl, France	
16:00	Control of fruitlet abscission in mango	Vered Irihimovitch, Institute of Plant Science ARO, Israel		