

# Program

## Monday, 26 June 2017

17:00-  
19:00 Registration of participants

## Tuesday, 27 June 2017

09:00 Opening Ceremony

09:45 **Opening lecture**

Building resilience: future directions in mineral nutrition of woody perennial crops  
*Neilsen D, Neilsen G, Forge T*

10:25 Coffee break

10:55 **Keynote**

Nutrient availability in the rhizosphere  
*Mimmo T*

11:25 **Uptake and allocation of nutrients**

*Chairperson: Lang G*

Breeding apple rootstock for modulation of mineral nutrient composition in scions  
*Fazio G, Cheng L, Francescatto P, Lordan J, Grusak M, Robinson T*

Iron deficiency root responses and effects of different iron fertilization practices in  
*Prunus*

*Abadia J, Luis-Villarroya A, Gogorcena Y, Abadia A, Alvarez-Fernández A*

Potassium affects the sugar content and the expression of key genes involved in  
sugar metabolism in leaves and fruit of "Huangguan" pear

*Dong C, Shen C, Xu Y*

12:30 Lunch

14:00 **Keynote**

From isotopes to x-ray fluorescence and high-resolution 3-D visualization: alternative  
approaches for studying calcium uptake and distribution in apple

*Kalcsits L, Giordani L, Van Der Heijden G, McNear D*

14:30 **Uptake and allocation of nutrients**

*Chairperson: Lang G (Michigan State University, East Lansing, USA)*

Impact of reduced post-véraison leaf area on the relationship between petiole and  
fruit composition

*Holzappel B, Rossouw G, Smith J*

Uptake and internal allocation of nitrogen in apple trees

*Swarts N, Close D, Morris M*

Leaf and root nitrogen uptake from simulated atmospheric deposition in potted apple  
trees

*Zanotelli D, Panzacchi P, Scandellari F, Mosca E, Tagliavini M*

15:30 Coffee break

- 16:00 **Mineral nutrition and environmental stresses**  
*Chairperson: Peryea FJ (Washington State University, Wenatchee, USA)*  
 Evaluating the efficiency of a pre-harvest combination of calcium and boron as foliar application to reduce sunburn on "Cripps Pink" apples  
*Lötze E, Daiber SH, Midgley SJE*  
 Effect of soil phosphorous addition on growth, nutritional status and photosynthesis of potted grapevine plants grown with an excess of copper  
*Baldi E, Miotto A, Sorrenti G, Quartieri M, Brunetto G, Ceretta CA, Toselli M*  
 Peach rootstock tolerance to excess zinc in sandy acidic soil  
*Brunetto G, Tiecher TL, Hammerschmitt RK, Basso Facco D, Ferreira PAA, De Conti L, Oliveira Stefanello da Silva L, Mayer NA, Correa Antunes LE, Cesco S, Mimmo T*
- 17:00 Introduction to the poster session 1  
*Chairperson: Toselli M (Università di Bologna, Bologna, Italy)*
- 17:20 Poster session 1
- 18:30 Welcome cocktail

### Wednesday, 28 June 2017

All day field trip

### Thursday, 29 June 2017

- 09:00 **Keynote**  
 Olive fertilization requirements under intensive cultivation management  
*Dag A, Erel R, Ben-Gal A, Yermiyau U*
- 09:30 **Mineral nutrition and fruit quality**  
*Chairperson: Achilea Oded*  
 Effects of potassium nutrition on fruit yield and quality of the Maltese citrus cultivar (*Citrus sinensis*, L.)  
*Ben Mimoun M, Dbara S, Lahmer K, Marchand M*  
 Effect of plant growth-promoting rhizobacteria on the growth and quality of strawberry (*Fragaria ananassa*)  
*Pii Y, Graf H, Valentinuzzi F, Cesco S, Mimmo T*  
 A review on balancing nitrogen and potassium nutrition of the pear cultivar 'Conference'  
*Gomand A, Vercammen J, Siongers V, Bylemans D*
- 10:30 Coffee break
- 11:00 **Agronomic techniques and mineral nutrition**  
*Chairperson: Carranca C (Instituto Nacional de Investigação Agrária e Veterinária, Lisbon, Portugal)*  
 Cover crops effects on grape yield and yield quality, and soil nitrate concentration in three vineyards in Ontario, Canada  
*Sharifi M, Carter K, Baker S, Verhallen A, Nemeth D*  
 Remediation of soil fertility and management of mineral nutrition in fruit orchards under a sustainable farming system in semi-arid conditions  
*Xiloyannis C, Mininni AN, Dichio B, Pascazio S, Crecchio C, Sofo A*

- The effect of transition from flood irrigation method to drip irrigation on leaf nutrient concentrations of apple cv. Starkrimson Delicious  
*Uçgun K, Küçükyumuk C, Bayav A*
- 12:00 Lunch
- 13:30 **Keynote**  
Role of mycorrhizae on mineral nutrition of fruit trees  
*Ortas I*
- 14:00 **Mineral nutrition in organic farming**  
*Chairperson: Scandellari F (Free University of Bolzano-Bozen, Bolzano-Bozen, Italy)*  
Apple root systems for organic orchards: what might be the contribution of the rootstock  
*Atkinson D*  
Vine performance and wine composition of chardonnay in relation to organic soil amendment in Mediterranean environment  
*Tarricone L, di Gennaro D, Debiase G, Amendolagine AM, Gentilesco G, Masi G*  
Fertilization strategies to increase nitrogen content in organic apple trees in the flowering period  
*Vangdal E, Koort A*
- 15:00 Introduction to the poster session 2  
*Chairperson Rolf Nestby (Norwegian Institute of Bioeconomy NIBIO, Aas, Norway)*
- 15:20 Coffee break
- 15:50 Poster session 2
- 17:00 Business meeting
- 20:00 Social dinner

## Friday, 30 June 2017

- 09:00 **Keynote**  
Supplying nutrients through fertigation and the impact of rootstock to optimize yield and maximize quality in tree fruit  
*Fallahi E, Neilsen D*
- 09:30 **Nutrient supply methods**  
*Chairperson: Villar J*  
Combination of manure and chemical fertilizers improve Nanguo pear (*Pyrus ussuriensis* Maxim) growth and soil fertility in Northeastern China  
*Liu X, Chen L, Chen Q*  
Autumn fertilization in raspberry, blackberry and strawberry  
*Sønsteby A, Woznicki TL, Heide OM*  
Quantity and quality of production, partitioning of dry matter and of mineral nutrients in apple trees subjected to four-year different fertilization strategies  
*Porro D, Pedò S, Pasqualini J, Bertoldi D*
- 10:30 Coffee break
- 11:00 **Nutrient supply methods**  
*Chairperson: Villar J (University of Lleida, Lleida, Spain)*

Uptake and effect studies with foliar-applied or fertigated phosphorus with apple and pear grown on soils with and without calcium carbonate

*Van der Maas MP*

Foliar zinc applications in *Prunus*. from lab experience to orchard management

*Saa Silva S, Negron C, Brown P*

12:00

**Memorial lecture**

Professor Dr. hab. Andrzej Witold Sadowski

*Neilsen G, Wrona D, Atkinson D*

12:40

Closing ceremony

13:00

Lunch