Sunday
August 28

6.30PM - 8.30PM
WELCOME COCKTAIL AND REGISTRATION
in San Giovanni in Monte Cloister
Piazza San Giovanni in Monte, 2 - Bologna

Monday
August 29

8.30 AM
REGISTRATION
Registration continues at the Congress Venue: “Belmeloro University Complex”
Via Belmeloro 14, Bologna

9.00 AM - 9.15 AM
Luca Corelli Grappadelli
Welcome

9.15 AM - 9.45 AM
KEYNOTE
Stuart Tustin
The Planar Cordon – New Planting Systems Concepts to Improve Light Utilisation and Physiological Function to Increase Apple Orchard Yield Potential

SESSION I & II: TRAINING AND ARCHITECTURE

9.45 AM - 10.30 AM
Chairs: Dugald Close
Ted M. DeJong
Demonstrative Simulations of L-PEACH: A Computer-based Model to Understand How Peach Trees Grow
James A. Flore
"Modification of Orchard and Tree Climate using a Solid Set Canopy Delivery System"

Connie Fisk
Effects of Orchard Floor Management on the Peach Rhizosphere

10.30 AM - 11.00 AM
COFFEE BREAK

11.00 AM - 1.00 PM
Chair: Stefano Musacchi
Gerardo Lopez
Simulation of Tree Growth for Three Almond Cultivars with Contrasting Architecture with the L-ALMOND Model
Grant Thorp
Using Scion Architecture of One-Year-Old Budded Trees as a Guide to Optimise Almond Orchard Systems Design
Claire Scofield
Nursery Tree Design Effects on One- and Two-year Infrastructure of Sweet Cherry and Apricot Cultivars
Jill Stanley
Early Canopy Development and Production Precocity in New Orchard System Designs for Cherry
Benjamin Toft
Can Greater Understanding of Macadamia Tree Architecture Lay the Foundation for Orchard Productivity Improvements?

Inigo Auzmendi
Using Functional-Structural Modeling to Study Patterns of Fruit Size Distribution in Tree Canopies

Paula Ibell
The Effects of Variety and Training System on Vegetative Growth of Mangifera Indica (Mango) Orchards in Far North Queensland

Paula Ibell
The Effects of Alternative Training and Planting Systems on Light Relations in Mangifera Indica (Mango) Orchards in Far North Queensland

Lee Kalcsits
Light, Air, and Soil Environment Manipulation Using Photoselective Anti-Hail Netting in a High Latitude, Desert Environment

Sergio Tombesi
Xylem Manipulation Techniques Affecting Tree Vigour in Peach and Olive Trees

Peter Hirst
Defining and Automating Optimal Dormant Pruning

Matthew Whiting
Mechanical Pruning is Promising in Vertical Fruiting Wall Sweet Cherry Orchards

Tim Biddlecombe
To Investigate the Effect of Four Timings of Mechanical Pruning on Yield and Fruit Quality Compared to a Hand Pruned Control in an Intensive Gala M9 Orchard planted as a Fruit Wall

Idris Macit
The Effect of Bud Management on Growing and Development in Cherries

Stefano Musacchi
Fall and summer pruning to control vigor in d’Anjou pear
Tuesday
August 30

ROOTSTOCKS

8.30 AM - 9.00 AM

KEYNOTE

Gregory A. Lang
Integrating Canopy Architectures and Rootstock Traits to Optimize Fruit Production in Different Environments

SESSION IV V VI: ROOTSTOCKS

9.00 AM - 10.30 AM
Chair: Leo Rufato

Jaume Lordan
Effects Of Apple Rootstocks On Growth Vigor, Bud-Break, Yield Scion Response and Hormone Concentration

Nicola Dallabetta
The Performance of Geneva Rootstocks in the Province of Trento, Italy

Wiehann Steyn
Evaluating More Yield Efficient Dwarfing, Semi-Dwarfing and Semi-Vigorous Rootstocks for the South African Apple Industry

Felicidad Fernandez
Towards Marker-Assisted Breeding in the NIAB-EMR Apple Rootstock Breeding Programme

10.30 AM - 11.00 AM

COFFEE BREAK

11.00 AM - 1.00 PM
Chair: Ben van Hooijdonk

Alex Salazar-González
Graft Compatibility For New Released Prunus Rootstocks

Gregory Reighard
Rootstock Performance in the 2009 NC-140 Peach Trial Across 11 States

Rosario Muleo
Using Genome Plasticity to Generate in Vitro Rootstocks Tolerant Waterlogging in Vivo

1:00 PM - 2:00 PM
LUNCH BREAK

2:00 PM - 3:30 PM
POSTER SESSION

3:30 PM - 4:00 PM
COFFEE BREAK

Geza Bujdosó
Evaluation of Some Precocious Sweet Cherry Cultivars on Some Hungarian Bred Mahaleb Rootstocks

Lynn Long
Interaction of ‘Regina’ Sweet Cherry (Prunus avium L.) on Five Rootstocks Trained to Kym Green Bush or Vogel Central Leader Systems

Gregory A. Lang
The NC140 Trial Results from Michigan, New York, British Columbia, and Nova Scotia

Kourosh Vahdati
Association of Anatomic factors and growing rate of seedling in Persian walnut (Juglans regia)

Kourosh Vahdati
Evaluation of Different Covering and Different Methods of Grafting on Walnut Grafting Success Under Shade-house Condition
**Wednesday, August 31**

**TECHNICAL VISITS**

**7.30 AM - 7.00 PM**
Option I. **ROMAGNA Tour**
Stone Fruit
Option II. **FERRARA Tour**
Pome Fruit

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**4.00 PM - 5.00 PM**
Chair: **Gennaro Fazio**

**Luigi Tarricone**
Rootstocks and Soil Management Effects on Productive Characteristics of Princess Seedless Table Grapes in Apulia Region (Southern Italy. First Results)

**Adam Friend**
Diversity in Scion Development in a Grafted Pyrus Seedling Rootstock Population

**Jef Vercammen**
Search for a more dwarfing rootstock for ‘Conference’

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**6.30 PM**
**TRANSFER**
to College of Agriculture

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**7.00 PM - 8.00 PM**
**PLENARY SESSION**
a Celebration in honour of Prof. Silviero Sansavini

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**8.00 PM**
**COCKTAIL DINNER**
offered to all participants and accompanying persons
Thursday
September 1

ENVIRONMENTAL PHYSIOLOGY

8.30 AM - 9.00 AM
KEYNOTE
Maciej Zwieniecki
Management of nonstructural carbohydrate pools in trees' preparing for the challenges imposed by a warmer world

SESSION VII: TREE PRODUCTIVITY

9.00 AM - 10.30 AM
Chair: Bartolomeo Dichio
Ben van Hooijdonk
Harvest Index of Apple and Kiwifruit - How High Can We Go by Optimising Plant Architecture and Canopy Management?

Todd Einhorn
An Increase in Pistil Growth, Relative Water Content and Freeze Sensitivity Precede Visible Changes of Sweet Cherry Reproductive Buds and Correlate with Advancing Phenology Stages of Several Genotypes

Benoit Pallas
The Analysis of the Impact of Carbon Source-sink Relationships on Flowering Patterns Reveals That Apple Tree Growth and Functioning are Determined by Mechanisms Occurring at the Tree and Shoot Scales

Ken Breen
Apple Fruit Set is Influenced by Altered Floral Bud Density But Not by Reduced Carbohydrate Reserves Status

Matthew Whiting
A Precision Pollination System for Yield Security in Tree Fruit

Robert Veberic
Fruitlet Shedding Affected by the Position in the Apple Cluster

10.30 AM - 11.00 AM
COFFEE BREAK

SESSION VIII: SOURCE/SINK RELATIONS

11.00 AM - 12.00 AM
Chair: Todd Einhorn
Helen Hofman
Improving Crop Load of ‘Hass’ Avocado in High Density Systems

Adam Friend
Inducing sylleptic branching in the interspecific pear PremP109

Gabino Reginato
Fruit Size and Yield Efficiency of Gala Apples Grown in Chile Depend on the Cultivation Area

Michael Blanke
Effect of Crop Load Management (CLM) by Selective Thinning on Detection of cv. Pinova Apple Fruit for Yield Prediction

SESSION IX: FRUIT QUALITY

12.00 AM - 1.00 PM
Chair: Gerardo Lopez
Poliana Francescatto
A Study on AVG and 1-MCP Uptake from Foliar Applications in Apple

Michael Blanke
Non-Invasive Examination of Plant Surfaces by Opto-Electronic Means - Using Wax Bloom and Russet as Examples
Friday
September 2

SESSION X: FLOWERING, FRUIT SET AND PLANT GROWTH REGULATORS
8.30 AM - 10.30 AM
Chair: Matt Whiting
Gabino Reginato
Modeling and Monitoring Post-Bloom Fruit Growth and Drop in Apple: Prediction of Sensitivity and Assaying Effects of Chemical Thinners
Jef Vercammen
Chemical Thinning of 'Conference'
A.M. Muller
The Use of Plant Growth Regulators to Increase Apical Extension Growth of First-leaf Apple Trees
Michael Blanke
Pigment Analyser (PA) and DA Meter - Future Ripening Indicators?
Joyce Tina Razakaratrimo
Flowering is Related to the Axis Phenology in the Clove Tree, an Irregular Bearing Spice Crop
Frederic Normand
Integrated Mango Production: Objectives and Challenges
Dugald Close
Horticultural Ecophysiology of Tasmanian Native Pepper

SESSION XI: WATER RELATIONS AND SOIL MANAGEMENT
10.45 AM - 12.15 AM
Chair: Jef Vercammen
Bartolomeo Dichio
Water and Carbon Economy in Sustainable Orchards in Mediterranean Environments
Alexandra Boini
Testing the effect of light conditioning and water stress on apple physiological parameters and yield
Benoit Pallas
Impact of Long Term Water Deficit on Production and Flowering Occurrence in the 'Granny Smith' Apple Tree Cultivar
Matthew Whiting
Withholding Near-Harvest Irrigation in Sweet Cherry has Minimal Effect on Fruit Quality
Sadeq H.Bayesh Al-Fadheel
Sustainable Irrigation Strategy on Organic Victoria Table Grape in Apulia Region
Elena Baldi
Increasing Phosphorus Concentration in Soil as a Possible Strategy to Overcome Cu Excess Symptoms

1.00 PM - 2.00 PM
LUNCH BREAK

2.00 PM - 3.30 PM
POSTER SESSION

3.30 PM - 4.00 PM
COFFEE BREAK

4.00 PM - 5.30 PM
BUSINESS MEETING

7.30 PM
TRANSFER to the Restaurant

8.00 PM
SOCIAL DINNER @ Savoia Hotel Regency

10.15 AM - 10.45 AM
COFFEE BREAK

12.15 AM - 12.45 AM
CONCLUDING REMARKS

12.45 PM
FAREWELL LUNCH
ALL POSTERS WILL BE ON DISPLAY FOR THE ENTIRE DURATION OF THE SYMPOSIUM. THE PRESENTING AUTHORS MUST STAND BY THEIR POSTER DURING THE POSTER SESSION, ACCORDING TO THE FOLLOWING SCHEDULE

**Monday August 29**

**POSTERS: ORCHARD SYSTEMS**

- **Franci Stampar**
  Solaxe and Spindle ‘
  Comparison of Two Apple Training Systems

- **Danilo Cabrera**
  Comparison of Training Systems and Planting Density for Gala ’Baigent’® Grafted Onto G16 Rootstock

- **José Luiz Petri**
  Habit of Growth and Influence of Summer Pruning on Growth of Apple Trees in Warm Weather

- **Guilherme F. Sander**
  The Effect of Different Training Systems on Vegetative and Productive Performance of Apple Trees Cultivar ‘Maxigala®’ in Southern Brazil

- **In Hee Park**
  Effects of Mulching and Root Pruning on Root Pressure of ‘Fuji’ Apple Nursery Trees Grafted on M.9 and M.26 Rootstocks

- **Andrea De R. Rufato**
  Development and Productivity of Apple Trees cv. MaxiGala on Different Planting Depth

- **Jinzheng Wang**
  Studies on Different Thinning Methods of Airtight Apple Orchards and Their Effects on Orchard Structure, Solar Energy Utilization and Fruit Quality

- **Marlene Ayala**
  Implementation and Evaluation of Training Systems for Pedestrian Orchards in sweet cherry (Prunus avium L.)

- **Brent L. Black**
  Renewal Pruning Strategies for Montmorency Tart Cherry on Dwarving Rootstocks

- **Wiehann Steyn**
  Canopy Factors Influencing Sunburn And Fruit Quality of Japanese plums (Prunus salicina lindl.)

- **Davide Neri**
  Use of Nets in the Olive Orchard Management

- **Leo Rufato**
  ‘Gala’ Apple Performance with Mechanical Hedging in Southern Brazil Growing Conditions

- **Matthew Whiting**
  Timing of Pruning Affects Vegetative Growth but Neither Yield nor Fruit Quality in Sweet Cherry Trained to the UFO System

- **Dario Stefanelli**
  The Effects of Canopy Architecture and Crop Load on Non-structural Carbohydrate in Young Stonefruit Trees: Preliminary Results

**Tuesday August 30**

**POSTERS: ROOTSTOCKS**

- **Nicola Dallabetta**
  Performance of Different Rootstocks in Varying Soil Conditions

- **Malgorzata Korbin**
  Putative Functional Markers Related to Cold-Hardiness of Apple Rootstocks, Revealed by New Generation Sequencing

- **Stefano Musacchi**
  Preliminary Results of a Multisite Trial on New Apple Rootstocks on Fumigated and Replant Soil Conditions

- **Leo Rufato**
  Maturation Behavior of Maxi Gala Grafted on two Rootstocks by no Destructive Method

- **Andrea De Rossi**
  Chill Requirement and Budburst Uniformity on Cultivar MaxiGala Grafted on Different Rootstocks

- **Adam Friend**
  Comparing ease of propagation of European pear cultivars to that of Pyrus rootstock mapping population

- **Legia Demirsoy**
  Promising Sweet Cherry Genotypes as Cherry Rootstocks from North Anatolia (Preliminary Results)

- **Michelle Morales-Olmedo**
  Influence of Different Rootstocks on the Physiological Response of ‘Bing’ Sweet Cherry Grown Under Soils with Poor Aeration
Maria Claudia Piagnani
Field difference on self-rooted cherry cv ‘Hedelfingen’ wild type and somaclone ‘HS’ between ‘Gisela 6’ and ‘Colt’ rootstock on vegetative habitus and production effect

Edgars Rubauskis
The Productivity Evaluation Methods of Cultivar and Rootstock combinations

Michael Parker
Peach Rootstock Influences on Tree Survival from Bacterial Canker in the Southeastern United States

Connie Fisk
Rootstock Effect on Soil Ecology in a Young Peach Orchard

Alessio Scalisi
Preliminary Evaluation of six Prunus Rootstocks for Peach in Italy

Mohamed Ghrab
The effect of three different vigour rootstocks on vigour rootstocks

Leo Rufato
Root Distribution Combinations Rootstocks of Quince Grafts and Pear Cultivars and its Relationship with Vigor and Production

Aike Anneliese Kretzschmar
Use of Quince Adams Rootstock as an Alternative in European Pear Production in Southern Brazil

Jason French
Pecan Rootstock Maternal Genotype: Implications for nutrient uptake in alkaline soils

Darius Kviklys
Plum Tree Performance on Two Rootstocks in the Young Orchard

Ludek Lanar
Early Performance of Three Plum Varieties on Different Rootstocks in Non-irrigated Orchard

Kourosh Vahdati
Dwarf Rootstock Selection From Half-Sib Progeny of Early Mature Walnut Landraces

Thursday September 1

Darius Kviklys
Towards Apple Bearing Stability in Strictly Alternating Orchard

Michael Blanke
Reflective Mulches (Extenday and Lumilys) and Biostimulant (Sunred) to Improve Fruit Colour in Apple

Dragan Radivojevic
Efficiency of Fruitlet Thinning in ‘Granny Smith’ Apple by Use of Metamitron

Marlene Ayala
Use of Brassinosteroids to increase fruit quality in sweet cherry (Prunus avium L.)

Husnu Demirsoy
Promalin Affects Lateral Shoot Formation in Sweet Cherries

Rosario Muleo
Plasticity of Plant Development in Apricot as Determined by Genome and Surrounding Light

Todd Einhorn
Endopolyploidy Was Observed in Sweet Cherry Mesocarp but Relative Rates of Growth and Endoreduplication Were Uncoupled

Davide Neri
Effect of Manure and Digestate Amendments on Root Growth of Apple Seedlings in the Presence of Homospecific Residues

Moreno Toselli
Nitrogen Fertilization of Chardonnay Grapevine: Yield, Must Composition and their Relationship with Temperature and Rainfall
OUR LOCATIONS

SAN GIOVANNI IN MONTE CLOISTER
Piazza San Giovanni in Monte, 2
Bologna

UNIVERSITY COMPLEX BELMELORO
Via Belmeloro, 14
Bologna

AGRICULTURAL AND VETERINARY MEDICINE SCHOOL (AULA MAGNA)
Viale Fanin, 44
Bologna

Social Dinner
SAVOIA HOTEL REGENCY
Via del Pilastro, 2
Bologna

CONVENER
Luca Corelli Grappadelli

SCIENTIFIC COMMITTEE
Stuart Tustin
Gennaro Fazio
Jordi Marsal
Ted DeJong
Richard Bastias
Brunella Morandi
Greg Reighard
Gerardo Lopez
Ben Van Hooijdonk
Dugald Close
Bartolomeo Dichio
Massimo Tagliavini
Paolo Inglese
Pasquale Loschiae
Luigi Manfrini
Ed Zurawicz
Jef Vercammen
Jens Wunsche
Stefano Musacchi
Matt Whiting
Todd Einhorn
Wiehann Steyn

ORGANIZING COMMITTEE
Brunella Morandi
Luigi Manfrini
Kushtrim Bresilla
Alexandra Boini
Giulio Demetrio Perulli