

ISA EUROPEAN CONFERENCE OF ARBORICULTURE 2014

*“Planning the green city: relationships between trees and
infrastructures”*

Turin

26th -28th May 2014

SCIENTIFIC PROGRAM

Monday 26th May

Time	Program
10.00-14.00	Participants registration
15.00-16.30	Welcome and opening Room Cavour
16.30-18.00	Plenary and keynote session <i>Room Cavour</i> - Chairperson: Ferrini F. Trees of green – beyond the Green Infrastructure agenda <i>Konijnendijk van den Bosch C. (invited speaker)</i> Why do trees fall down? <i>Nicklas K.J. (invited speaker)</i>
18.30-21.00	Welcome cocktail

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Tuesday 27th May

Time	Program
8.45-10.45	Concurrent session 1 - Trees and infrastructures and green infrastructures
	Room Giolitti - Chairperson: Smiley E.T.
8.45	“GreenInUrbs”: Green Infrastructure approach - linking environmental with social aspects in studying and managing urban forests <i>Calfapietra C. (invited speaker)</i>
9.15	The Green Infrastructure approach: from theory to case study <i>Sanesi G., Laforteza R., Colangelo G.</i>
9.30	Urban forest policy and governance in the Green Infrastructure approach <i>Krajter Ostoić S., Paloniemi R., Jones N.</i>
9.45	Tree protection regulations in town of Oakville, Ontario, Canada <i>Vava C.</i>
10.00	Linking people and landscapes: can understanding public perceptions help guide urban forest management? <i>Ries P.D., Baur J., Driscoll A.</i>
10.15	Planting trees in the contemporary cities: understanding of the city functioning <i>Bianchi T., Cantù A., Cozzi V., Frangi P., Papponi L., Parisini M., Piatti V., Pusterla M., Strada M., Valagussa M., Balder H., Shears I.</i>
10.30	The tree heritage in suburban landscape: criteria and strategies for conservation and management <i>Bounous G., Beccaro G.L., Devecchi M., Larcher F.</i>
8.45-10.45	Concurrent session 2 - Management of diseased, infested and declining trees
	Room Einaudi - Chairperson: Gonthier P.
8.45	Dieback of ash and elm: current situation in north Europe <i>Vasaitis R. (invited speaker)</i>
9.15	Detectives do the dirty work: diagnosing and managing the interaction of urban trees with associates, pests, and other humans <i>Meilleur G.</i>
9.30	Combining three specific site sustainability practices, in unison, improves overall tree health and reduces the need for pesticide applications for insects and disease <i>Murphy J., Ap L.</i>
9.45	New and effective plant protection products and modes of delivery to control tree pests and diseases <i>O'Callaghan D.P., Percival G.</i>
10.00	Overview on wood decay fungi of ornamental broadleaves and conifers in the city of Genoa <i>Giordano L., Sillo F., Guglielmo F., Costa G., Gonthier P.</i>



10.15 Research on pests and diseases in urban trees and forests of Ljubljana City, Slovenia
Jurc M., Jurc D.

10.30 European ash (*Fraxinus excelsior*) dieback as a biodiversity conservation challenge
Pautasso M., Aas G., Queloz V., Holdenrieder O.

10.45-11.15 Coffee break

11.15-12.45 Concurrent session 1 - Trees and infrastructures and green infrastructures

Room Giolitti - Chairperson: Smiley E.T.

11.15 Environmental services of Green Infrastructure and Urban Forests and implications of climate change
Samson R., Niinemets Ü., Calfapietra C.

11.30 The certificate in arboriculture as a fundamental objective to achieve healthier and longer living trees in towns, parks, gardens, or where trees are grown to beautify Europe
Nellen C., Read G., Pestalozza A.

11.45 Environmental index for the reduction of construction impact, the proposal of Modena's Institute of Agronomists and Forestry Professionals to regenerate an industrial area of Modena
Di Paolo A.

12.00 The floristic diversity in the quarry San Giuseppe di Basovizza – Trieste
Balbis P., Bozzato F.

12.15 Geomatics applications for survey, management and tourism exploitation in the green areas. A case study: the Racconigi Royal Park
Boniforte A., Garnero G.

12.30 Retrenching hollow trees for life: fitting smaller and stronger trees into cities
Meilleur G.

11.15-12.45 Concurrent session 2 - Management of diseased, infested and declining trees

Room Einaudi - Chairperson: Gonthier P.

11.15 The North American invasive fungal pathogen *Heterobasidion irregulare* is a new threat to European parklands and urban pinewoods
Gonthier P., Anselmi N., Garbelotto M.

11.30 Emerald ash borer management planning in a Canadian context
van Wassenae P.

11.45 The parasite fungus *Ustulina deusta*: identification and way of decaying inside the tree
Pecollo D., Leone C., Fruscione C.

12.00 A rapid molecular diagnostic assay for the detection and identification of wood decay fungi of conifers
Sillo F., Giordano L., Guglielmo F., Garbelotto M., Gonthier P.

12.15 Use of the electronic nose for the detection of *Anoplophora chinensis* on standing trees: preliminary results
Villa G., Bonanomi L., Guarino D., Pozzi L., Maspero M.

12.30 A special challenge: a pluriannual (2007-2014) project aimed at saving an historical tree and its associates
Castiglioni M., Zanzi C., Zanzi D.

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12.45-14.15 Free lunch and poster viewing

14.15-15.30 Concurrent session 1 - Trees and infrastructures and green infrastructures

Room Giolitti - Chairperson: Sanesi G.

- 14.15 Durable tree-growth in an UNESCO World Heritage Site: designing the growing site for trees along canals in the urban jungle of Amsterdam city centre
Voeten I.J.G.W.F.
- 14.30 The effects of the tree growth regulator Paclobutrazol (PBZ) on fast growing trees and application to utility arboriculture
O'Callaghan D.P., Percival G.
- 14.45 Growing trees in an urban plaza environment: a comparison of below pavement treatments and their impact on tree growth
Smiley E.T.
- 15.00 Tree response after severe root damage: monitoring the risk of failure, performing pulling tests after four years. Competition between crown growth and root restoration process
Pestalozza A., Guzzi D.
- 15.15 Health treatments and measures taken to stability of the monumental *Platanus x acerifolia* of La Spezia (Italy)
Fruscione C., Leone C., Fantini L.

14.15-15.45 Concurrent session 3 - Tree management in a global change scenario

Room Einaudi - Chairperson: Nowak D.

- 14.15 Gray city or Green City? Let's plan a green and sustainable future using trees wisely!
Ferrini F. (invited speaker)
- 14.45 Climate change and landscape modifications: re-thinking of urban vegetation
Breganni F., Butté F.
- 15.00 A new national project - planning the green city in the global change era: urban tree species function and suitability for predicted future climates (TreeCity)
Bussotti F.
- 15.15 Silvicultural and arboricultural management of a nineteenth century landscape
Luison S., Sgrò S., Semenzato P.
- 15.30 Private trees management in urban areas: positive experiences
Malandrino P.F., Pascucci R., Della Torre D., Scifoni G., Lai N.

14.15-15.45 Concurrent session 4 - Tree risk assessment and biomechanics

Room Cavour - Chairperson: Rinn F.

- 14.15 Arborists: the hidden threat to Arboriculture!
Barrell J. (invited speaker)

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- 14.45 Tree biomechanics: where are we now?
van Wassenae P.
- 15.00 Urban tree heritage management: from visual tree assessment to tree life expectancy in an urban contest.
The experience of city of Turin
Cirulli G.
- 15.15 Balancing risks from falling trees with the costs of risk control: quantified tree risk assessment validates
balancing the likelihood and extent of potential harm from tree hazards with the many costs of risk
mitigation
Ellison M.
- 15.30 Tree hazard assessment and monitoring in Florence
Degl'Innocenti C., Cantini C., Rubellini P., Cerchiarini S.
- 15.45-16.15 Coffee break
- 16.15-16.45 Concurrent session 3 - Tree management in a global change scenario**
- Room Einaudi - Chairperson: Nowak D.**
- 16.15 Repeated pruning cycles differently affect tree structure and physiology of *Acer pseudoplatanus*, depending
on how pruning is carried out
Fini A., Faoro M., Amoroso G., Piatti R., Frangi P., Ferrini F.
- 16.30 Biogenic Volatile Organic Compounds emitted from peri-urban forest fires
Centritto M., Ciccioli P., Loreto F.
- 16.15-17.15 Concurrent session 4 - Tree risk assessment and biomechanics**
- Room Cavour - Chairperson: Rinn F.**
- 16.15 Tree stability evaluation: the importance of monitoring programs
Cevenini L., Corradini M., Minelli A., Pasini I., Zuffa D.
- 16.30 Procedures to manage tree risk assessment in extensive green areas
Fruscione C., Rezza G.
- 16.45 Using the ISA Best Management Practice Method for tree risk assessment
Smiley E.T.
- 17.00 Views from the top: an expedition to the redwood canopy
van Wassenae P.
- 17.15-18.45 Poster viewing
Workshop: Manage the tree risk and public tree heritage renewal: open discussion between public
administrators and professional technicians



Wednesday 28th May

Time	Program
8.45-10.45	Concurrent session 4 - Tree risk assessment and biomechanics Room Cavour - Chairperson: Niklas K.J.
8.45	From biomechanics to tree-statics Rinn F. (invited speaker)
9.15	R3 TREES: an innovative tool for the integrated management of urban green areas <u>Viskanic P.</u> , Cattaneo N.
9.30	Orebla, a simple model for tree risk assessment <u>Sani L.</u> , Strazzabosco L., Blotta V.
9.45	Study of Italian stone pine assessment in urban environment <u>Morelli G.</u> , Moretti G., Duntemann M.
10.00	A protocol for risk assessment of veteran trees Strazzabosco L.
10.15	Development of a tree risk index associated to ornamental trees inside historic parks. Case study of Villa Lante, Bagnaia (VT), Italy <u>Tomao A.</u> , Giuliarelli D., Quatrini V., Saccoccia D., Agrimi M.
10.30	Checktrees.com – collect, update and share data about trees <u>Kolařík J.</u> , Szórádová A.
8.45-10.45	Concurrent session 5 - Tree benefits and tree value in the urban context Room Giolitti - Chairperson: Ries P.D.
8.45	Assessing urban forest ecosystem services and values in Europe Nowak D. (invited speaker)
9.15	Rationale for the increased use of evergreen and deciduous conifers in terms of urban ecosystem benefits <u>Clapp J.C.</u> , Ryan H.D.P. III, Bloniarz D., Harper R.
9.30	Vegetal evolution as renewed relationship between nature and mankind. Analysis and development of tangency scenarios between industrial design and vegetation in contemporary cities Ceraolo S.



9.45 Sustainable urban regeneration and Green Infrastructure (GI) implementation: competitive gains from tree planting at an economic, environmental and social level

Andreucci M.B.

10.00 Complementarity of functional traits in urban trees and ecosystem services

Bussotti F., Pollastrini M.

10.15 Urbanization vs rooting: the city that moves “around” the silent work of the trees

Farronato S., Nichele P.

10.30 Cultivations and divisions inside of Tusculum agrarian landscapes, further on archaeology and villas. The role of the vegetation in the course of time

Marani M.E., Fabrini G.

10.45-11.15 Coffee break

11.15-12.45 Concurrent session 4 - Tree risk assessment and biomechanics

Room Cavour - Chairperson: Niklas K.J.

11.15 The Neto Park renovation project using the digital method – Calenzano (Florence, Italy)

Martelli S., Mainardi P., Poli J., Lutri A., Grassi M.

11.30 Installing cables did not affect annual radial increment in co-dominant stems of red oaks

Kane B.

11.45 Designing special anchoring systems for special trees

Passola G.

12.00 The effect of leaves and steel support cables on the dynamic properties of northern red oak (*Quercus rubra*) with co-dominant trunks

Reiland M., Kane B., Modarres Sadeghi Y., Ryan D.

12.15 Determining strength limits for standing tree stems from bending tests

Detter A., Rust S., Rust C., Risse M.

12.30 Determination of the tree safety factor – error source analysis

Divos F.

11.15-12.45 Concurrent session 5 - Tree benefits and tree value in the urban context

Room Giolitti - Chairperson: Ries P.D.

11.15 Valuing and managing veteran trees: the VETree Project

Meilleur G.

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- 11.30 Protection of monumental trees: the implementation of law n. 10, January 14th 2013, and new profiles of collaboration between government and stakeholders
Farina A.
- 11.45 The Smart Tree initiative and permanent polycyclic plantations in the city of Turin
Motta R., Berretti R., Boetto G., Vacchiano G., Miglietta P., Cirulli G.
- 12.00 Treegraphy (Arborgraphia - Alberografia): a way to appreciate and popularize the existence of our urban trees, a way to enlighten our towns
Fratus T.
- 12.15 Georol: a partecipative approach to input and output data of VTA urban trees census
Maroé A., Stampanato A., Favero A., Bobbera A.
- 12.30 The influence of forest areas on the Urban Heat Island effect: a case study in Italy
Mariani L., Parisi S.G., Cola G., Craveri L., Colangelo G., Laforteza R., Sanesi G.
- 12.45-14.15 Free lunch and poster viewing

14.15-15.45 Concurrent session 4 - Tree risk assessment and biomechanics

Room Cavour - Chairperson: Niklas K.J.

- 14.15 Interpretation of instrumental data in tree stability evaluation: limitations of tools to obtain scientifically correct results
Cevenini L., Corradini M., Minelli A., Pasini I., Zuffa D.
- 14.30 Pruning did not affect sway response of large sugar maples
Kane B., Seyed-Aghazadeh B., Reiland M., Modarres-Sadeghi Y.
- 14.45 Results of a 20 year assessment of damage to the roots of street trees in London
Crane B.G.
- 15.00 Assessing the impact of root loss on tree stability
Smiley E.T.
- 15.15 Effect of aspect ratio and included bark on branch attachment strength
Miesbauer J.W., Gilman E.F., Harchick C., Paz M.
- 15.30 Improving sprout attachment strength for crown restoration of storm damaged trees
Miesbauer J.W., Gilman E.F., Harchick C.

14.15-15.45 Concurrent session 5 - Tree benefits and tree value in the urban context

Room Giolitti - Chairperson: Cirulli G.

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- 14.15 The role of bioarchitecture on the carbon sequestration of urban greening: the “Ecovillaggio” case study
Minelli A., Minelli M., Santi F.
- 14.30 Environmental benefits derived by urban parks: carbon dioxide (CO₂) lowering and microclimate amelioration
Gratani L., Bonito A., Naimoli M., Varone L.
- 14.45 Analysis of surface temperature under different ground cover and shading condition: a case study in Florence
Napoli M., Brandani G., Massetti L., Petralli M., Orlandini S.
- 15.00 Urban surface temperature patterns in relation to vegetation within the metropolitan area of Palermo
Pipitone G., Motisi A., Georgiadis T.
- 15.15 Gardens without pollen – Examples of allergy-free green realizations
Zangari F.
- 15.30 *Cupressus sempervirens* and allergy: genetic improvement and plant selection to reduce pollen production
Barberini S., Della Rocca G., Lambardi M., Danti R.
- 15.45-16.15 Coffee break

16.15-17.00

Concurrent session 4 - Tree risk assessment and biomechanics

Room Cavour - Chairperson: Niklas K.J.

- 16.15 Residual growth stresses in *Acer pseudoplatanus* and *Tilia cordata* enhance the breaking resistance of tree stems
Brudi E., Kaczensky T., Woodward S.
- 16.30 Risk assessment of maple trees subjected to wind and decay effects on that risk
Ciftci C., Brena S., Kane B., Arwade S.
- 16.45 Wood decay fungi associated with standing and failed conifer and broadleaf trees as detected through molecular assays: inferences on their host preference and their role on tree stability
Gonthier P., Sillo F., Guglielmo F., Giordano L.
- 16.15-16.45** **Concurrent session 5 - Tree benefits and tree value in the urban context**
Room Giolitti - Chairperson: Cirulli G.
- 16.15 Qualiviva: the quality of the national nursery-floriculture industry through the use and divulgation of varietal plant palettes and procurement specifications for green areas realizations
Resta E.

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16.30 Some native, rare and endemic tree species with ornamental potential in Turkish forests

Yilmaz M., Yavuz Z.

17.00-18.45 Poster viewing

Workshop: Tree Risk Assessment (TRA)

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