

ARBORETA AROUND THE WORLD

Share your knowledge on biodiversity

International conference on history, value and future prospects of arboreta

Together for the future of biodiversity

Firenze e Vallombrosa, Italy

10 - 11 October 2019

On the 150th anniversary of the foundation of the Royal Forestry Institute and Experimental Arboreta in Vallombrosa, the Raggruppamento Carabinieri Biodiversità (the current managing authority) wishes to celebrate, with a 2-day conference, the historical and conservation value of arboreta at the global level. The conference will also provide an opportunity to debate the benefits of networking and partnerships and discuss future challenges, providing a forum to exchange best practices in management, conservation and education. The celebrations will take place in Firenze, and in Vallombrosa (35 km east of Firenze), the birthplace of Italian Forestry School, in the historical Benedictine Abbey. A unique setting and opportunity to share the experience and science in Vallombrosa Arboreta, a favourite place through the years for many of researchers and scholars in Forestry and Tree Heritage.

The conference will include of a series of Panels focussing on different aspects of the work of arboreta. Each panel will include a number of invited speakers to address the panel theme.

Panel 1

Botanic gardens and arboreta through time

Botanic gardens and arboreta are places of excellence for the study of plants, traditionally linked to medicinal plants and to the assessment of the potential use of new plants to be introduced into cultivation. In the current global context a new important focus is on ex-situ conservation of threatened species. Environmental education is also a contemporary task for arboreta, aiming at raising awareness of biodiversity and sustainability.

Panel 2

Management of tree collections

Arboreta include mature specimens of trees that strike visitors with their size, age and shape. While striving to preserve such specimens, it is important to ensure the safety of both visitors and staff. The frequent occurrence of extreme weather phenomena poses a serious threat to their conservation and requires urgent coordination and careful planning to put in place effective approaches for the assessment of mature trees and the reduction of the related risks.

Panel 3

Networking and partnerships

A well-organized national network and a wider global network are key features of working together in partnership to optimise resources and maximise results for the benefit of trees and plant conservation. Modern technologies allow easy connection and networking, to facilitate the coordination, exchange and sharing of expertise and development of common approaches among key institutions managing plant collections.

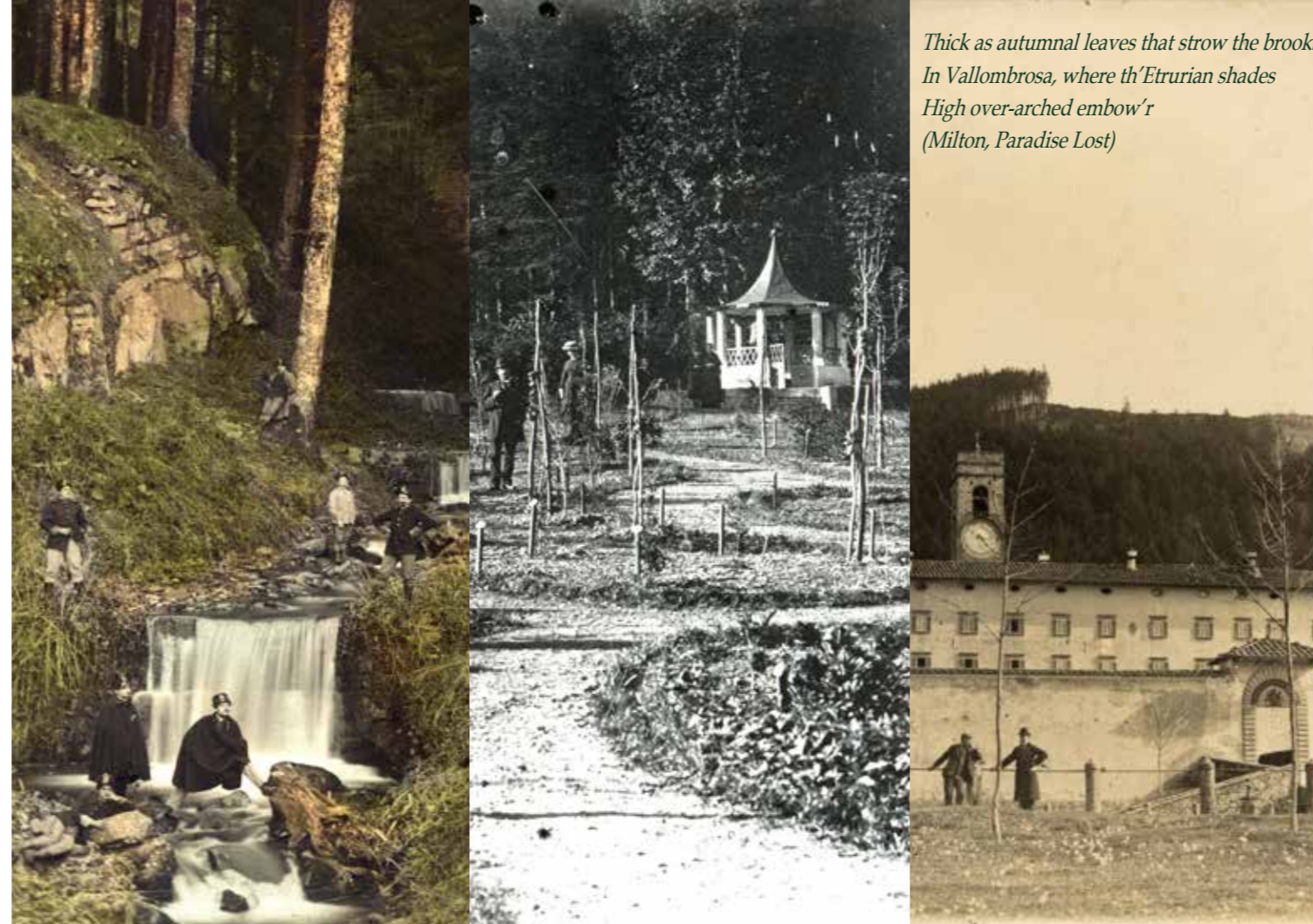
Special focus

Environmental education and outreach: The history of botanic gardens and arboreta is linked to the desire to share knowledge and reach out to a wider public. Over time, tree collections have matured and became increasingly important for the study of plant diversity.

Panel 4

In-situ and ex-situ conservation

Arboreta contribute to plant conservation with a special focus on threatened trees, producing and updating red lists and safeguarding their genetic diversity with carefully selected collections. An integrated in-situ /ex-situ approach making use of nurseries and plant propagation and micropropagation facilities can act and protect where most needed.



Thick as autumnal leaves that strow the brooks
In Vallombrosa, where th'Etrurian shades
High over-arched embow'r
(Milton, Paradise Lost)

*"A conservare ed accrescere
Con giusto concetto
Con sapiente governo"*

*"To preserve and increase
With fair study
With wise management"*

con il patrocinio di



www.carabinieri.it

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BIODIVERSITÀ



INTERNATIONAL CONFERENCE

ARBORETA AROUND THE WORLD

Share your knowledge on biodiversity

Firenze e Vallombrosa

10 - 11 October 2019

Palazzo della Borsa - Firenze

Abbazia di Vallombrosa - Reggello (Firenze)

ITALY



BIODIVERSITÀ





ARBORETA AROUND THE WORLD

Share your knowledge on biodiversity

International conference on the history, value and future prospects of arboreta. Together for the future of biodiversity on the 150th foundation anniversary of the Royal Forestry Institute and Experimental Arboreta in Vallombrosa.

Firenze e Vallombrosa, Italy, 10 - 11 October 2019

Program

Thursday 10 October 2019

Firenze, Palazzo della Borsa, Auditorium della Camera di Commercio di Firenze

9:00 Official welcome address by the national and local authorities

10:00 Opening works

Ciro D'Angelo, Comandante delle Unità Forestali, Ambientali e Agroalimentari Carabinieri / *Chief of the Carabinieri Forestry, Environmental, Agri-food sector Units*

Orazio Ciancio, Presidente della Accademia Italiana Scienze Forestali / *President of the Italian Academy of Forest Sciences*

Massimo Vincenzini, Presidente della Accademia dei Georgofili / *President of the Georgofili Academy*

Consolata Siniscalco, Presidente della Società Botanica Italiana / *President of the Italian Botanic Society*

Eilon M. Adar, Ben-Gurion University of the Negev, Israel

“The Water Miracle in Israel: planning, innovations, development and comprehensive water management that allow the returning of water to arid nature for preserving biodiversity”

10:45 Coffee break

11:00 **Panel 1**

Botanic Gardens and Arboreta through time

Chair: **Mario Tozzi**, Geologo e divulgatore scientifico / *Geologist and Scientific divulger*

Davide De Laurentis, Comandante dei Carabinieri per la Tutela della Biodiversità e dei Parchi / Chief of the Carabinieri Command for Biodiversity and Parks Protection

“The 150 years of Vallombrosa Arboreta”

Maria Carmela Giarratano, Direttore Generale della Direzione Generale per la Protezione della Natura del Ministero dell' Ambiente e della tutela del Territorio e del Mare / General Director of Nature Protection department of the Ministry of Environment and Protection of Land and Sea

“The ministry’s role in the management of botanical gardens”

Alessandra Stefani, Direttore Generale del dipartimento Direzione Foreste del Ministero delle Politiche Agricole, Alimentari, Forestali e del Turismo / General Director of Forestry department of the Ministry of Agricultural, Food, Forestry and Tourism Policies

“Census and conservation of monumental trees in Italy”

Simon Toomer, National Specialist for Plant Conservation, National Trust, England, UK

“The historical context of ‘the arboretum’ as a landscape component and the adaptation of historical tree collections in response to climate challenges”

13:00 Light lunch

13:45 Transfer to Abbazia di Vallombrosa

Abbazia di Vallombrosa, Sala del Capitolo

15:00 Official welcome address by local authorities

Padre Giuseppe Casetta - OSB, Abate Generale della Congregazione Vallombrosana / General Abbot of Vallombrosa Congregation

Cristiano Benucci, Sindaco di Reggello / Mayor of Reggello

15.20 **Panel 1**

Botanic Gardens and Arboreta through time

Chair: **Consolata Siniscalco**, Società Botanica Italiana / Italian Botanic Society

Francesco Maria Raimondo, Italian Botanic Gardens Network, Italy

“Botanic Gardens and Arboreta in Italy”

Sergio Castelbolognesi, Keren Kayemeth Lelsrael, Italy

“KKL and Trees”

Alessandro Chiarucci, Università di Bologna / University of Bologna, Italy

“Sacred natural sites in Italy – A cultural treasure conserving groves, forests and biodiversity”

Patrick Huvenne, Geographical Arboretum Tervuren, Belgium

“Revival of Forest Arboreta in Western Europe - The case of Tervuren”

William Hinchliffe, Royal Botanic Garden Edinburgh, Scotland, UK

“The plant collectors and their influence on the tree collections in Europe”

Erika Péntzesné Kónya, Eszterházy Károly University, Eger, Hungary

“Botanical knowledge elements making trees more attractive in environmental education”

16:15 coffee break

16:30 **Panel 2**

Management of tree collections

Chair: **Costantino Bonomi**, Italian rep. in the European Botanic Garden Consortium

Fausto Cardella, Procuratore Generale della Repubblica presso la Corte di Appello di Perugia / Attorney General of Perugia, Italy

“Mafia and environment”

Chris Malumphy, Fera Science, England, UK

“Trees pests, diseases and citizen science monitoring programmes and The International Plant Sentinel Network”

Raffaele Cavalli, Università di Padova / University of Padova, Italy

“Historical garden of Revedin Bolasco Villa of University of Padova: recovery, restoration and management”

Piermaria Corona, Consiglio per la Ricerca in Agricoltura e l'analisi dell'Economia Agraria - Centro di Ricerca Foreste e Legno, Arezzo / Research Centre for Forestry and Wood - Italian Council for

Agricultural Research and Economics, Arezzo, Italy

“CREA’s role in tree management”

Alessandro Bottacci, Comando Regione Carabinieri Forestale “Toscana”, Firenze / Carabinieri Forestry

Regional Command “Toscana”, Firenze, Italy

“History and evolution of management of arboreta”

Franco Pedrotti, Università di Camerino / University of Camerino, Italy

“30 years of experience with a recent Arboretum: the Arboretum Appenninicum of Camerino 1990-2019”

Giuseppe Brundu, Università di Sassari / University of Sassari, Italy

“The European code of conduct on invasive alien trees”

Friday 11 October 2019

9:00 **Panel 3**

Networking and partnerships

Chair: **Suzanne Sharrock**, Botanic Gardens Conservation International, England, UK

Sue Paist, ArbNet Coordinator, The Morton Arboretum, USA

“The Arbnet accreditation scheme”

Vince Zsigmond, Hungarian Association of Arboreta and Botanic Gardens - Budapest Zoo and Botanic

Garden, Hungary - **Kósa Géza**, Hungarian Association of Arboreta and Botanic Gardens – National

Botanic Garden of Hungarian Academy of Sciences, Hungary - **Reka Folly**, Hungarian Association of Arboreta and

Botanic Gardens – Folly Arboretum, Hungary

“Diversity of Arboretas in Hungary - An overview about their situation and activities”

Aisha W.Karanja, Back to Basics, Kenya

“Partnerships and networking in forest conservation and management – A case of Kenya”

Suzanne Sharrock, England, UK - **Costantino Bonomi**, Trento, Italy

Botanic Gardens Conservation International

“Plant Search, the BGCI global plant collection database, how to contribute”

10.45 coffee break

11:10 **Special focus - Environmental education and outreach**

Luisella Meozzi, Green Accord - **Maria Luisa Cocozza**, TG 5, Arca di Noè - **Corrado Zunino**, La Repubblica

Matteo Parlato, Rai News24

12.30 Light Lunch

14:00 **Planting ceremony of two special trees for Vallombrosa arboreta - Introduced by Paolo Grossoni**

Pinus heldreichii var. *leucodermis*, one of the few Italian endemic trees and *Pseudotsuga menziesii*, a

tree of particular importance for the Vallombrosa collection, the first exotic experimental tree planted the first time by Benedictine Monks in 1861.

15:00 **Panel 4**

In-situ and ex-situ conservation

Chair: **Alessandro Chiarucci**, Università di Bologna / University of Bologna, Italy

Giovanni Vendramin, Istituto di Bioscienze e Biorisorse del Consiglio Nazionale delle Ricerche, Italy / Institute of biosciences and bioresources of National Research Council, Italy

“Distribution and conservation of forest genetic resources”

Raffaello Giannini, Accademia dei Georgofili, Firenze / Georgofili Academy, Firenze, Italy

“The role of arboreta in the conservation of genetic diversity of forest ecosystems”

Stefano Amore, Corte Costituzionale / Costitutional Court, Italy

“Brief remarks on law and environment in Italy”

Chuck Cannon, Center for Tree Science of the Morton Arboretum, USA

“Assisting trees to thrive in the Anthropocene”

Martin Gardner, Royal Botanic Garden Edinburgh, Scotland, UK

“The International Conifer Conservation Programme”

16:30 Coffee Break

16:50 **David Neale**, University of California, USA

“The Conifers: Genomes, Complex Traits and Adaptation”

Kirsty Shaw, Botanic Gardens Conservation International, England, UK

“The BGCI global tree conservation programme”

Jinfeng Zhou, China Biodiversity Conservation and Green Development Foundation, China

“The China Biodeversity Experience”

Gianluca Piovesan, Università della Tuscia / University of Tuscia, Italy

“On tree longevity”

18:30 **Presentation of the “Vallombrosa Charter” and conclusions**

20:00 Dinner

During the conference days (10th - 11th October) Vallombrosa Arboreta tours will be available; The personnel of the Reparto Carabinieri Biodiversità of Vallombrosa will guide guests through the marvellous paths and autumn coloured canopies.

Saturday 12 October 2019

10.00 Free guided tour of the Botanical Garden “Giardino dei Semplici” in Firenze. Please book in advance.

È prevista l’assegnazione n. 2,25 crediti formativi per gli iscritti all’Ordine dei Dottori Agronomi e dei Dottori Forestali e di n. 12 crediti formativi per gli iscritti al Consiglio Nazionale degli Architetti Pianificatori, Paesaggisti e Conservatori.