

Scientific Conference on

«Restoration of Forest Ecosystems and Landscapes after natural disasters or other human-induced disturbances – Demonstration of the Best Practices»

Monday, 14th October 2013

Venue: Divani Caravel Hotel, Vas. Alexandrou 2, Athens

8:30-9:00

Registration and Refreshments on arrival

9:00 -9:30

Opening Session

Chairman: Dr. G. Xanthopoulos

President of the «Hellenic Organization for the Common Cause», Mr. L. Cambanis

Representative of the Stavros Niarchos Foundation

Deputy Minister of Environment, Energy & Climate Change Mr. S. Kalafatis¹

The Special Secretary of Forests (MEECC), Mr. G. Amorgianiotis

1st Thematic Session : «Post-fire Restoration of Forest Ecosystems and Landscapes »

9:30 - 9:50

Fire in the Mediterranean Forests: The role of Ecological knowledge under a changing environment.

Professor M. Arianoutsou, Faculty of Biology – National and Kapodistrian University of Athens

9:50 - 10:10

Restoration Actions for Burned Areas to combat Desertification

Professor Ramon Vallejo Calzada, Faculty of Biology – University of Barcelona – Spain

10:10 - 10:30

Selection of methods for managing dead standing timber for a more efficient recovery of a burnt ecosystem. The contribution of contour-felled log erosion barriers, branch barriers and log dams in soil protection and restoration of vegetation after fire.

Dr. G. Xanthopoulos, Associate Researcher, Institute of Mediterranean Forest Ecosystems & Forests Products Technology - Hellenic Agricultural Organization “Demeter”

10:30 - 10:50

The role of ecological knowledge in designing Post Fire Management: Case Studies.

Professor M. Arianoutsou, Faculty of Biology – National and Kapodistrian University of Athens

10:50 - 11:10

Burned area mapping and post-fire monitoring. The role of satellite remote sensing and GIS in the short – term and long-term post fire impact assessment.

Associate Professor I. Gitas, Faculty of Forestry and Natural Environment – Aristotle University of Thessaloniki.

11:10 – 11:30

Establishment of criteria for the selection of suitable forest species to be used in restoration of burned forest areas and indicators for ongoing monitoring of the response of these species (for a minimum of 5 years after their installation) as well

¹ To be confirmed

The Workshop was made possible by the generous support of the Stavros Niarchos Foundation (www.SNF.org), as part of the Foundation’s support of the Hellenic Organization for the Common Cause for a reforestation project on Mount Penteli, Attica.

indicators for monitoring of natural regeneration after fire (for at least 3-5 years).

Dr. G. Karetsos, Associate Researcher, Institute of Mediterranean Forest Ecosystems & Forests Products Technology - Hellenic Agricultural Organization "Demeter"

11:30 – 11:50 The use of compost in afforestation as a material with critical physicochemical and biological effects.

Associate Professor C. Chassapis, Faculty of Chemistry – National and Kapodistrian University of Athens

11:50 – 12:10 The impacts of Climate Change on the risk of Forest Fires in Greek Ecosystems.

Dr. C. Giannakopoulos, Senior Researcher, Institute for Environmental Research and Sustainable Development – National Observatory of Athens.

12:10 – 12:30 The need to develop a Common Restoration Strategy for Burnt Forest Areas, and new guidelines that will take modern challenges into consideration (climate change, biodiversity, water conservation), as well as the need for knowledge transfer from research to practice.

Ms. I. Verdi, Forester, Directorate of Reforestation - Decentralized Administration of Attica

Restoration Methods for Burned Forest Ecosystems in Greece – Demonstration of Best Practices

12:30 – 12:50 Reforestation in the area of St. Marina – N. Makri of the Penteli Mountain using compost.

E. Tsartsou, Forester – Environmental Scientist (MSc), Special Agency for the Coordination of Environmental Projects – Ministry of Environment, Energy & Climate Change

12:50 – 13:10 The Rehabilitation Project for the Archaeological Site and the Wider Landscape of Olympia.

Dr. G. Karetsos, Associate Researcher, Institute of Mediterranean Forest Ecosystems & Forests Products Technology - Hellenic Agricultural Organization "Demeter"

13:10 – 13:30 Natural Regeneration of *Abies cephalonica* Loudon in Parnitha National Park in Attica – Greece, and restoration possibilities six years after the fire.

Dr. E. Daskalaku, Assistant Researcher, Institute of Mediterranean Forest Ecosystems & Forests Products Technology - Hellenic Agricultural Organization "Demeter"

13:30 – 13:50 Restoration of *Pinus nigra* Forests through a structured approach

Dr. P. Kakouros, Forester PhD, Greek Biotope / Wetland Centre Department of Biotic Resources and Management of Protected Areas - The Goulandris Natural History Museum

13:50 - 14:10 Regeneration of *Pinus halepensis* and *Pinus brutia* forests after fire.

Professor Th. Zagas, Faculty of Forestry and Natural Environment – Aristotle University of Thessaloniki.

14:10-14:30

Questions – Answers

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14:30 – 15:20

Lunch

2nd Thematic Session: Restoration of Forest Ecosystems and Landscapes after mining activities

- 15:20 – 15:40** Mining activities in Greece from antiquity until now: The contribution to the national economy.
Professor M. Vavelidis, Vice-president, School of Geology - Aristotle University of Thessaloniki.
- 15:40 - 16:00** Degradation and Restoration of the environment in mining areas
Professor D. Alifragis, Faculty of Forestry and Natural Environment – Aristotle University of Thessaloniki.
- 16:00 – 16:20** International Practice with regard to restoration of quarries. A complex and sustainable soil additive for vegetation restoration in extreme soil conditions.
Professor Oswald Blumestein, Faculty of Mathematics & Science – Institute of Geology – University Postdam – Germany.
- 16:20 – 16:40** Limiting Factors for revegetation of the main mining spoils in Greece.
Dr. G. Brofas, Researcher (emeritus), Institute of Mediterranean Forest Ecosystems & Forests Products Technology - Hellenic Agricultural Organization “Demeter”.

Methods of Vegetation and Landscape Restoration of Disturbed Surfaces especially after mining activities in Greece– Demonstration of Best Practices

- 16:40 – 17:00** Study and implementation of Phyto-remediation of the old tailing disposal area in Olympias, Halkidiki.
Professor D. Alifragis, Faculty of Forestry and Natural Environment – Aristotle University of Thessaloniki.
- 17:00 – 17:20** Use of native plants for Landscape Restoration after mining activities on Milos island.
Mr. G. Petrakis , Head of Landscape Restoration Unit – Directorate of Operations in Milos, S&B Industrial Minerals S.A.
- 17:20 – 17:40** Good Practices in cement industry quarries by the TITAN Group.
Mr. A. Katsiamboulas, Director of Environment – Cement Division in Greece – TITAN Cement Company S.A.

17:40-18:00

Questions – Answers

18:00 **Completion of the Conference – Closing Remarks by the Chairman of the Conference**
Dr. G Xanthopoulos



Restoration of Forest Area of St. Marina – N. Makri of the Penteli Mountain



The Landscape of Archaeological place of Olympia after the restoration



Restoration of Milos's quarry with native plants



The old tailing disposal area in Olympias Halkidiki before restoration



The Pinus nigra forest on mount Paronias before the fire

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