

September 9th, 2021 – Main Room

9:00 - 9:40 Plenary session. Understanding the ecology and biogeography of global drylands to promote their effective restoration.

Fernando Tomás Maestre Gil

Distinguished researcher and full professor in dryland ecology. University of Alicante.

Session chair: Santiago Soliveres

Technical Assistant: Aymen Moghli

9:50 - 11:10 S19.1 Understanding the impacts of global environmental change and desertification in global drylands through international collaboration.

Session chair(s): Fernando Tomás Maestre Gil, Yanfen Wang

Technical Assistant: Aymen Moghli

Understanding global change and desertification impacts through international collaboration: The BIODESERT project. Fernando Tomás Maestre Gil

The Regional Impact of Ecological Restoration in the Arid Steppe on Dust Reduction over the Metropolitan Area in Northeastern China. Xiaoming Feng

Sustainable development in global drylands. Yali Liu

Interaction and synergism management of Water and Ecosystem in Aral Sea basin. Chen Xi

Framework of remote sensing-based grassland degradation monitoring on Qinghai-Tibet Plateau. Yanfen Wang

11:10 - 12:30 S19.2 Understanding the impacts of global environmental change and desertification in global drylands through international collaboration.

Session chair(s): Fernando Tomás Maestre Gil, Yanfen Wang

Technical Assistant: Aymen Moghli

Essential dryland ecosystem variables. Bingfang Wu

Dryland forests and future restoration potential driven by climatic legacies. Emilio Guirado

Desertification in Spain: an accurate diagnosis without effective solutions. Jaime MartínezValderrama

Croppedland dynamic change and spatial variations from 2010-2020 in Mediterranean Regions. Hongwei Zeng

12:30 - 13:20. Break

13:20- 14:00 Plenary session. Terraforming drylands with synthetic biology

Ricard Solé.

ICREA Professor and specialist in complex systems and ecological theory. Universitat Pompeu Fabra

Session chair(s): Fernando Tomás Maestre Gil

Technical Assistant: Aymen Moghli

14:10 - 16:10 S11. Restoring continuity and barriers removal in rivers: complexity of managing Ecological Restoration projects.

Session chair(s): Simon Dufour, Ivan Bernez, Patricia María Rodríguez – González

Technical Assistant: Aymen Moghli

An innovative technology to decrease the environmental impact caused by polluting effluents from abandoned mines in rivers. Meritxell Abril

Improvement of Natura 2000 statuses with renaturation of Stržen's riverbed on intermittent Cerknica Lake. Irena Likar

Plants under hydropeaking: morphological and physiological responses. Alejandro Baladrón

Toward more effective stream restoration: a demonstration sites network to assess efficiency. Evelyne Tales

16:20 - 18:20 W4. Socio-ecological restoration of riparian vegetation by integrating biotic and abiotic pressures.

Session chair(s): Patricia Rodríguez González, Simon Dufour, Inês Marques, Cristina Vieites Blanco

Technical Assistant: Aymen Moghli

Ecological rehabilitation of riparian vegetation in regulated rivers: assessing ecosystem costs and benefits. Roland Jansson

Emerging Biotic (pest and diseases) pressures on riparian ecosystems: challenges and needs for their socio-ecological restoration. Jonas Oliva

Riparian plant invasions: causes, consequences and management. Eduardo Gonzalez Sargas

Socio-ecological restoration of riparian forests, what do we mean by "socio-" !. Simon Dufour

September 9th, 2021 – Room 2

9:50 - 11:10 S17. Tools for planning ecological restoration I

Session Chair(s): Elysa Silva, Andreu Bonet, Jordi Cortina-Segarra, Mchich Derak, Antonio Aledo

Technical Assistant: Elysa Silva

Tools for planning ecological restoration. Jordi Cortina-Segarra

Supporting future restoration efforts by measuring past restoration over space and time. Louise Willemen

Modelling landscape management scenarios for equitable and sustainable futures in rural areas based on ecosystem services. María Felipe-Lucia

Social barriers for Mediterranean restoration: a multicausal network analysis. José Javier Mañas

11:10 - 12:30 S17. Tools for planning ecological restoration I

Session Chair(s): Elysa Silva, Antonio Aledo, Andreu Bonet, Mchich Derak, Jordi Cortina-Segarra

Technical Assistant: Elysa Silva

Social learning on forest restoration in semiarid areas of North Africa. Mchich Derak

The Global Restore Project: Knowledge Sharing for Shared Success. Emma Ladouceur

4 Returns Framework for Business-driven Landscape Restoration. Simon Moolenaar

Codes of conduct as tool in large-scale landscape restoration, applied in two Norwegian restoration projects. Dagmar Hagen

12:30 - 13:20. Break

14:10 - 15:30 S18.1 Tools for planning ecological restoration II

Session Chair(s): Elysa Silva, Andreu Bonet, Jordi Cortina-Segarra, Mchich Derak, Antonio Aledo

Technical Assistant: Elysa Silva

Comparing prioritization methods for ecological restoration in Mediterranean landscapes. Elysa Silva

Prioritizing sites for ecological restoration based on ecosystem services. María Felipe-Lucia

Social and experts approaches in landscape restoration – Meeting points and conflicts. Alejandro Valdecantos

Restoring landscapes from a socio-ecological approach. Alexis Heinz

WePlan – Forests: A decision support platform for spatial planning of forest ecosystem restoration. Brooke Williams

15:40 - 17:00 S18.2 Tools for planning ecological restoration II

Session Chair(s): Elysa Silva, Andreu Bonet, Jordi Cortina-Segarra, Mchich Derak, Antonio Aledo

Technical Assistant: Elysa Silva

Alternatives for climate change adaptation and socio-economic recovery in mid-mountain areas (La Rioja, Aragon, Catalonia). Diana Pascual Sanchez

Deforestation and climate change threaten headwaters in Central-South Chile: priorities to restore. Adriana Rendon-Funes

Design of Ecological Restoration's interventions according to stakeholders' perception after an environmental disaster: a case-study. Tiago Lima

Development of the strategic framework for the restoration of degraded ecosystems and landscapes for the state of Austria. Florian Danzinger

September 9th, 2021 – Room 3

9:50 - 12:30 W2. Restoring Mediterranean wetlands: challenges for practitioners and lessons learned

Session Chair(s): Teresa Gil Gil, Brigitte Poulin

Technical Assistant: Paula Lopezosa

Introduction: strengthening the restoration of Mediterranean Wetlands for nature and people .Teresa Gil, Brigitte Poulin

The need of wetland restoration and the legacy of MAVA. Luis Costa

Criteria to prioritize restoration sites selection. Carlota Viada

Case study Estany des Ponts, Mallorca, Spain. Pere Tomàs

Case study Santa Giulia, Corsica, France. Eva Tankovic

Case study Laguna di Nora, Sardinia, Italy. Mauro Fois

Case study "Saline di Priolo", Sicily, Italy. Pietro Minissale

Case study Sakarun, Dugi Otok, Croatia. Boris Laus

Case study Lady's Mile, Cyprus. Stathis Theofilou

Case study Gökçeada Lagoon, Turkey. Derya Yildirim

Case study Ghar el Melh wetland complex, Tunisia. Imen Rais

Case study Azraq Wetland Reserve, Jordan Hazem Khreisha

Case study Guadalquivir Estuary, Spain. Rafael Seiz

12:30 - 13:20. Break

14:10 - 15:10 Meet the Editor

Session Chair(s): **Aveliina Helm**

Technical Assistant: **Paula Lopezosa**

Restoration Ecology. Stephen Murphy and Valter Amaral

Ecology and Management/Trees, Forests and People. Dan Binkley

Communications Biology/Scientific Reports (TBC). Caitlin Karniski

Frontiers in Conservation Science (TBC). Pierpaolo Di Giminiani

15:20 - 16:50 S16.1 The role of soil organisms in restoring degraded land

Session Chair(s): **Miriam Muñoz Rojas, Sonia Chamizo**

Technical Assistant: **Paula Lopezosa**

Reconnecting above and belowground biodiversity with microbially assisted restoration. Miriam Muñoz Rojas

Beneficial heterotrophs enhance the effectiveness of cyanobacteria-based biocrust restoration in drylands. Corey Nelson

Cyanobacteria inoculation to restore dryland degraded soils: optimizing their growth through application of habitat ameliorating techniques. Sonia Chamizo

Development and Application of Microbial Inoculum for Biological Soil Crust Restoration in Drylands. Corey Nelson

Non- destructive measurements for assessing biocrusts recovery. Jose Raul Roman

17:00 - 18:20 S16.2 The role of soil organisms in restoring degraded land

Session Chair(s): **Miriam Muñoz Rojas, Sonia Chamizo**

Technical Assistant: **Paula Lopezosa**

Rising from the ashes: The effects of soil burn severity on fire-moss growth and establishment. Juliana Monteiro

Metabolites from native biocrust cyanobacteria: applications for promoting germination and growth of plants used in restoration. Nathali Machado de Lima

Fungal perspective of pine and oak colonization in Mediterranean mined areas. Irene Adamo

Inputs of sheep droppings increase arthropod abundance. Emulation of sheep grazing on



12th SERE CONFERENCE

7th – 10th SEP 2021

online



natural steppes. Margarita Reverter Cid

Note : The time zone is CEST.