

# INTERNATIONAL CONGRESS ITALIAN SOCIETY OF VEGETATION SCIENCE

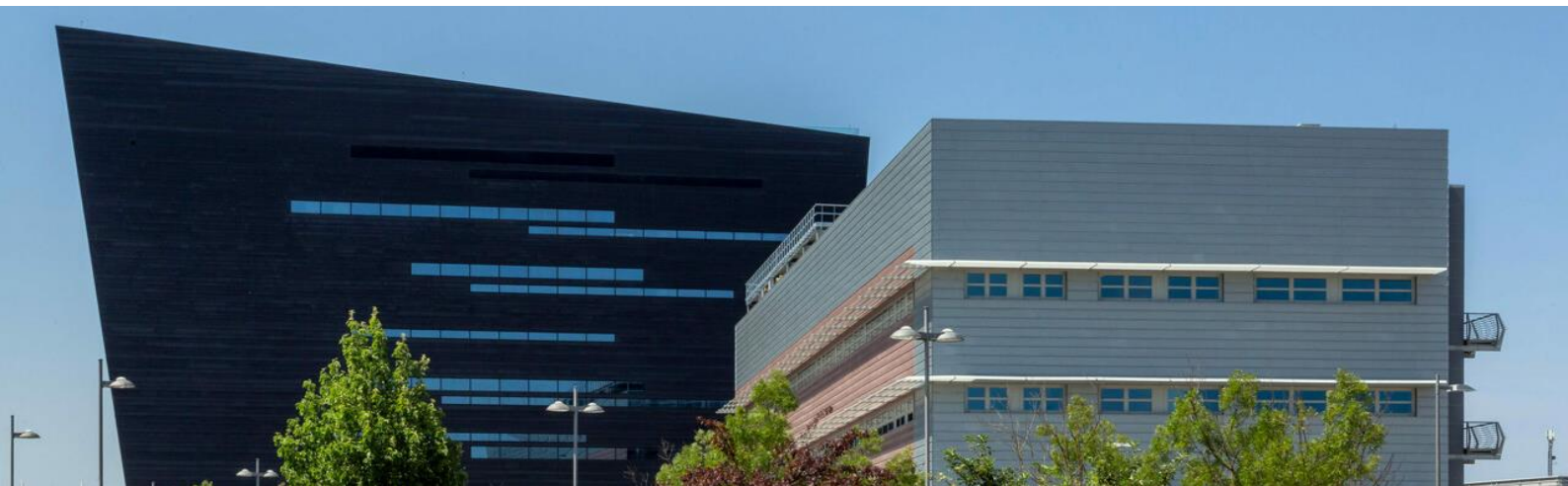
Società Italiana di Scienza della Vegetazione

VEGETATION SCIENCE IN THE ERA OF NATURE RESTORATION

57<sup>th</sup> Congress

6<sup>th</sup> – 7<sup>th</sup> June 2024

Ca' Foscari University of Venice, Campus Scientifico, Via Torino 155  
Mestre, Venice, Italy



8<sup>th</sup> June 2024

Field trip to restored coastal dunes of Foce del Tagliamento  
San Michele al Tagliamento



## Welcome

*Ecosystem restoration is a hot topic in the scientific community and the urgency of a long-term and sustained recovery of biodiverse and resilient nature is increasingly recognised politically, with the European Nature Restoration Law being the first continent-wide law on ecosystem restoration. Venice has long been recognised as the stage of the world and, for its long history of resilience and integration with the natural environment, has been appointed the Sustainability Capital of the World. We are therefore delighted to welcome you to the 57th International Congress of the Italian Society of Vegetation Science, where Venice will once again become the world's stage on which ecosystem restoration will be the theme of the play.*

## Scientific committee

Alicia Teresa Rosario Acosta, Claudia Angiolini, Simonetta Bagella, Gianmaria Bonari, Gabriella Buffa, Jacopo Calevo, Ana Cano Ortiz, Edy Fantinato, Leonardo Filesì, Silvia Del Vecchio, Gianpietro Giusso del Galdo, Peter Glasnović, Maria Guerrina, Carmelo Maria Musarella, Ricardo Quinto Canas, Luca Pegoraro, Ioannis Vogiatzakis

## Organizing committee

Gabriella Buffa, Andrea Della Bella, Chiara Facca, Edy Fantinato, Sebastiano Favarin, Leonardo Lorenzato, Simone Marino Preo

## Secretary

Edy Fantinato - [infosiv@gmail.com](mailto:infosiv@gmail.com)

## With the contribution of

European Union LIFE Programme  
LIFE IT/NAT/000848 PollinAction  
[www.lifepollinaction.eu](http://www.lifepollinaction.eu)

Department of Environmental Sciences,  
Informatics and Statistics  
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LIFE19 NAT/IT/000848  
IL PROGETTO GODE DEL  
CONTRIBUTO FINANZIARIO  
LIFE DELL'UNIONE EUROPEA



Università  
Ca' Foscari  
Venezia

# Program

**Thursday 6.6.2024**

12:00-14:00 Registration

14:00-14:30 Opening Ceremony

## SESSION 1: *Habitat restoration* (Chair Edy Fantinato)

14:30-15:00 Keynote speech

Ophelia in Venice: exploring Shakespeare's wetlands

**Bassi S.**

15:00-15:15

How do recovery actions improve meadow vegetation and pollinator community? The case study of Life PollinAction project

**Mosanghini D., Sommaggio D., Oriolo G.**

15:15-15:30

Restoration of dry-acidic Continental grasslands and heathlands in Natura 2000 sites in Piemonte and Lombardia: preliminary results of the LIFE Drylands project

**Barcella M., Gheza G., Nascimbene J., Brugellis I., Gressani A., Vallese C., Assini S.**

15:30-15:45

The Protected Dune Area "Vittoria Apuana" in Forte dei Marmi (Tuscany): Coastal Vegetation Evolution from 2002 to 2023

**Ciccarelli D., De Giorgi P., Mo A., Macchia U.**

15:45-16:00

Restoration of Habitat 7230 Low alkaline fens: an example in the Colfiorito Marsh carried out within the LIFE IMAGINE (project LIFE19 IPE/IT/000015 "Integrated Management and Grant Investments for the N2000 Network in Umbria").

**Venanzoni R., Angelini P., Boschi I., Ceccarelli M., Ciaschetti G., Maneli F., Marcenò C., Praleskouskaya S.**

16:00-16:15

The importance of stakeholder engagement in restoration projects

**Sartori E.**

16:15-16:30

Coffee Break

16:30-17:30

Poster Session

17:30-18:30

Assemblea Soci S.I.S.V.

20:30

Social Dinner at “la DISPeNSa DEL FORTE”

Via Forte Marghera, 30, 30173 Mestre, Venezia VE



SOCIAL DINNER  
VENUE

**Friday 7.6.2024**

## SESSION 2: *Ecological processes in plant communities*

(Chair Marco Malavasi)

8:45-9:30 Keynote speech

Post-mining vegetation rehabilitation under stressful environmental conditions: Lessons from species-rich shrublands of Western Australia

**Mucina L.**, Dobrowolski M.P., Tsakalos J.L., Riviera F., Wasserman JDeW

9:30-9:45

From taxonomic, through evolution to functionality: Assembly processes of plant communities in alpine pastures

**Doni L.**, Briozzo I., Cerabolini B., dalle Fratte M., Guerrina M., Mariotti M., Minuto L., Casazza G.

9:45-10:00

Complex relationships between bedrock geology and alpine vegetation in the Western Alps of Italy

**Cazzavillan A.**, Gerdol R., Marrocchino E., Vaccaro C., Brancaloni L.

10:00-10:15

Characterization of Mediterranean permanent grasslands through land surface phenology

**Tanda A.**, Pulina A., Bagella S., Riviaccio G., Vuolo F., Roggero P.P.

10:15-10:30

Small-scale spatial patterns of functional traits in fully mapped semi-natural dry grassland plots

**De Benedictis L.L.M.**, Chelli S., Canullo R., Campetella G.

10:30-10:45

Predicting changes in ecosystem functioning in coastal dunes using long-term census data

[La Bella G.](#), [Acosta A.T.R.](#), [Jucker T.](#), [Bazzichetto M.](#), [Sperandii M.G.](#), [Carboni M.](#)

10:45-11:15

**Coffee Break**

### SESSION 3: *Habitat and species monitoring - Survey*

(Chair [Silvia Del Vecchio](#))

11:15-11:45 Keynote speech

Mediterranean coastal dunes: past trends and future perspectives

**[Acosta A.T.R.](#)**

11:45-12:00

Resurveying historical vegetation plots to track community changes in Sardinian coastal dunes: a case study in La Maddalena National Park

[Caria M.C.](#), [Sperandii M.](#), [Denaro A.](#), [Malavasi M.](#), [Pisanu S.](#), [Rivieccio G.](#), [Bagella S.](#)

12:00-12:15

VegTrends: assessing long-term trends in European vegetation and evaluating protected area effectiveness

[Sperandii M.G.](#), [Bazzichetto M.](#), [Axmanová I.](#), [Knollová I.](#), [Padullés Cubino J.](#), [Damasceno G.](#), [Lososová Z.](#), [Barták V.](#), [Essl F.](#), [Bruehlheide H.](#), [Chytrý M.](#)

12:15-12:30

Grassland resurvey along an elevation gradient of the Alps

[Bonari G.](#), [Bricca A.](#), [Tomasi G.](#), [Dorigatti L.](#), [Bertolli A.](#), [Andreatta D.](#), [Sabatini F.M.](#), [Di Musciano M.](#), [Prosser F.](#)

12:30-12:45

Trends in vegetation dynamics as a tool for scientifically based management of Central Apennine grasslands

**[Petriccione B.](#)**

12:45-13:00

Climate and vegetation change effects on the distribution of the narrow-species *Santolina ligustica*

[Guerrina M.](#), [Bonifazio C.](#), [Calbi M.](#), [Minuto L.](#), [Varaldo L.](#), [Casazza G.](#)

13:00-14:00

**Lunch Break & Poster Session**

### SESSION 3: *Habitat and species monitoring - Habitat* (Chair Marta Carboni)

14:00-14:15

Intercalibration training declines observer error: evidence from a forest ecosystem

[Cervellini M.](#), [Salvatori L.](#), [Chelli S.](#), [Campetella G.](#), [Tsakalos J.L.](#), [De Benedictis L.L.M.](#), [Canullo R.](#)

14:15-14:30

Measuring canopy structural complexity through UAS-based photogrammetric point clouds to assess its effects on understory vegetation of riparian forests

[de Simone L.](#), [Fanfarillo E.](#), [Fiaschi T.](#), [Maccherini S.](#), [Angiolini C.](#)

14:30-14:45

Applying fuzzy approaches to map Natura 2000 and EUNIS habitats on coastal dunes from WorldView-3 imagery

[Pafumi E.](#), [Angiolini C.](#), [Bacaro G.](#), [Fanfarillo E.](#), [Fiaschi T.](#), [Rocchini D.](#), [Maccherini S.](#)

14:45-15:00

Coenological variability of Habitat 3170\* (Mediterranean temporary ponds) in central Italy: conservation issues, phytosociological interpretation and syntaxonomy

[Di Pietro R.](#), [Fortini P.](#), [Minutillo F.](#), [Tondi G.](#), [Filibeck G.](#), [Azzella M.](#)

15:00-15:15

Plant assemblages and conservation status assessment of habitat 9510\* Southern Apennine *Abies alba* forests

[Spampinato G.](#), [Morabito A.](#), [Laface V.L.A.](#), [Musarella C.M.](#)

15:15-15:30

Vegetation classification and survey of the Alcantara valley (Sicily): first outcomes

[Sciandrello S.](#), [Puglisi M.](#), [Cristaudo A.](#), [Miraglia G.](#), [Meli F.](#), [Ranno V.](#), [Tamburino V.](#), [Giusso del Galdo G.](#)

15:30-15:45

How severe wildfires and climate change could drive post-fire recovery of low-elevation vegetation: data from the first field campaign of a monitoring survey in the Karst (North-East Italy)

[Castello M.](#), [Petruzzellis F.](#), [Bacaro G.](#)

15:45-16:00

The high-altitude volcanic caves of Mount Etna (eastern Sicily, Italy): a refuge for ptero-bryophytic communities

[Puglisi M.](#), [Bacilliere G.](#), [Porrovecchio M.](#), [Teri D.](#), [Sciandrello S.](#)

16:00-16:15

**Coffee Break**

## SESSION 3: *Habitat and species monitoring - Species*

(Chair Maria Guerrina)

16:15-16:30

Assessing phenological patterns and impacts of *Ailanthus altissima* using Copernicus Satellite Mission on invaded ecosystems in a Mediterranean island

[Marzialetti F.](#), [Große-Stoltenberg A.](#), [Lozano V.](#), [Carranza M.L.](#), [Innangi M.](#), [La Bella G.](#), [Brundu G.](#)

16:30-16:45

Phytosociological re-consideration of the *Cheirolophus crassifolius* (Asteraceae, Cardueae) Phytocoenoses in Malta

[Tavilla G.](#), [Camilleri L.](#), [Adamo M.](#), [Lanfranco S.](#)

16:45-17:00

Monitoring Species of Community Interest - an example from the COMBI project

[Pezzi G.](#), [Cervellini M.](#), [Di Musciano M.](#), [Gheza G.](#), [Greco F.](#), [Ivan D.](#), [Landi S.](#), [Messori S.](#), [Narcisi M.](#), [Nascimbene J.](#), [Palazzini Cerquetella M.](#), [Rocchini D.](#), [Chiarucci A.](#)

17:00-17:15

Unravelling the Biases: A Sardinian Perspective on Taxonomic, Spatial, and Temporal Biases in Vascular Plant Biodiversity Data from GBIF

[Melis R.](#), [Bagella S.](#), [Bazzicchetto M.](#), [Perrone M.](#), [Malavasi M.](#)

17:15-17:30

Monitoring populations of orchid species in the Po Delta Regional Park Emilia-Romagna

[Brancaleoni L.](#), [Scramoncin L.](#), [Gerdol R.](#)

17:30-17:45

Distribution and conservation status of *Ipomoea imperati* communities in Southern Italy and in Sicily

[Caldarella O.](#), [Del Guacchio E.](#), [Laface V.L.A.](#), [La Rosa A.](#), [Santangelo A.](#), [Musarella C.M.](#)

20:00

Venice Tour

Departure from Campus Scientifico

Via Torino, 155, 30172 Mestre, Venezia VE



MEETING  
PLACE

**Saturday 8.6.2024**

07:30

Field Trip to “Foce del Tagliamento”

Departure from Campus Scientifico

Via Torino, 155, 30172 Mestre, Venezia VE

- estimated return time to Mestre: 18:00-18:30
- lunch is included in the registration fee



MEETING  
PLACE

## Posters

P1

Long term effects of municipal solid waste compost on plant and soil microbial diversity in mining soils

[Bagella S.](#), [Diquattro S.](#), [Porceddu A.](#), [Obinu L.](#), [Pinna M.V.](#), [Garau M.](#), [Roggero P.P.](#), [Garau G.](#), [Castaldi P.](#)

P2

Quantifying uncertainty associated with variance partitioning

[Bazzichetto M.](#), [Barták V.](#)

P3

The *Quercus ilex* rock communities of the Apuan area: identification and survey by UAVs technology

[Bertacchi A.](#), [Orazi D.](#), [Ercolini L.](#)

P4

Agricultural intensity and local factors influence plant diversity of farmland ponds

[Cannucci S.](#), [Angiolini C.](#), [Bolpagni R.](#), [Bonari G.](#), [Fiaschi T.](#), [Maccherini S.](#), [Fanfarillo E.](#)

P5

The relationship between temporal dynamics of landscape pattern and plant biodiversity in coastal dunes of protected area “Presidential estate of Castelporziano”

[Cini E.](#), [Sarmati S.](#), [Del Vecchio S.](#), [Acosta A.T.R.](#), [Marzialetti F.](#)

P6

The *Stipa* mountain grasslands in the central Apennines

[Cutini M.](#), [Zitarelli C.](#), [De Toma A.](#)

P7

Extensively managed meadows achieve the same cooling effect as tree-plant communities

[Della Bella A.](#), [Fantinato E.](#), [Cercato A.](#), [Buffa G.](#)

P8

Evaluating Arbuscular Mycorrhizal Fungi (AMF) associated with *Ammophila arenaria* (L.) Link *subsp. arundinacea* (Host) H. Lindb. in Sardinian coastal dunes across different disturbance intensity

[Denaro A.](#), [Caria M.C.](#), [Malavasi M.](#), [Bagella S.](#)



P9

Patterns of  $\alpha$  and  $\beta$ -diversity highlight uniqueness-based conservation priorities for plant communities in Italian agricultural landscapes

**Fanfarillo E.**, Maccherini S., Bacaro G., Bacchetta G., Bagella S., Barni E., Bonari G., Buffa G., Caldarella O., Calderisi G., Canella M., Cannucci S., Caria M.C., Castello M., Cogoni D., Chiaffarelli G., Cuenca-Lombrana A., D'Agostino M., Dalle Fratte M., de Simone L., Del Vecchio S., Deola T., Fantinato E., Farris E., Fenu G., Fiaschi T., Fois M., Gianguzzi L., Lastrucci L., Lazzaro L., Lonati M., Lozano V., Maccioni A., Mainetti A., Marengo G., Mascia F., Minuzzo C., Misuri A., Mugnai M., Murgia L., Pafumi E., Patera G., Potenza G., Rosati L., Sarmati S., Siccardi E., Tavilla G., Tiloca M.T., Tomaselli V., Vagge I., Viciani D., Zangari G., Angiolini C.

P10

Discovering the impact of grassland management on local plant and pollinator biodiversity: Lessons from LIFE PollinAction.

**Favarin S.**, Fantinato E., Buffa G.

P11

Effect of Pine litter and predation on acorns *Quercus ilex* L.: a case study from Giglio Island (Tuscany, Italy) within the Project Life LETSGO Giglio

**Favre B.**, Mugnai M., Siccardi E., Misuri A., Volanti V.A., Lazzaro L.

P12

The understory vegetation of coniferous plantations of non site-native trees: the case of *Cupressus sempervirens* forests in Italy

**Fellin H.**, Bonari G., Bricca A., Piotti A., Bagnoli F., Ciaramella D., Fanfarillo E., Fiaschi T., Maccherini S., Angiolini C.

P13

MultiForDiv project: Patterns and drivers of multi-taxon forest diversity

**Francioni M.**, Di Piazza S., Andreetta A., Campetella G., Canullo R., Carnicelli S., Cervellini M., Chianucci F., Fackovcova Z., Giordani P., Puletti N., Zotti M., Chelli S.

P14

Urban sprawl in intensive agricultural land: abundance of pollinators benefits from urban green spaces

**Lorenzato L.**, Fantinato E., Sommaggio D., Favarin S., Buffa G.

P15

Habitats of community interest in Alta Val d'Elsa natural area (Elsa River, Tuscany - Italy)

**Mascia F.**, Fiaschi T., Fanfarillo E., Cannucci S., Bonini I., Pandeli G., Gennai M., Foggi B., Angiolini C.

P16

Project LIFE TETIDE on Capraia, management of invasive plants species in Mediterranean island ecosystems

**Misuri A.**, Benesperi R., Dell'Olmo L., Foggi B., Giunti M., Mugnai M., Viciani D., Lazzaro L.

P17

Revisiting Pianosa (Italy): how vegetation of a small Mediterranean has changed in the last 15 years

[Mugnai M.](#), [Misuri A.](#), [Lazzaro L.](#), [Siccardi E.](#), [Benesperi R.](#), [Foggi B.](#), [Dell'Olmo L.](#), [Viciani D.](#)

P18

Unveiling the functioning of forest endemics: a comparative and multi-trait approach

[Postiglione N.](#), [Chelli S.](#), [Campetella G.](#), [Canullo R.](#), [Gasperini C.](#), [Selvi F.](#)

P19

Natural and semi-natural grasslands of Vallevicchia (Caorle, Veneto, Italy)

[Preo S.M.](#), [Fantinato E.](#), [De Rossi A.](#), [Buffa G.](#)

P20

Is the Natura 2000 Network representative of habitat diversity across Europe?

[Ricci L.](#), [Sperandii M.G.](#), [Frattaroli A.R.](#), [Chiarucci A.](#), [Chytrý M.](#), [Di Musciano M.](#)

P21

Forty-year coastal vegetation dynamics in the Castelporziano Presidential Estate: an analysis of biodiversity changes

[Sarmati S.](#), [Del Vecchio S.](#), [Di Biase L.](#), [Sperandii M.G.](#), [Acosta A.T.R.](#)

P22

Effect of anthropogenic drivers of change on the local plant community diversity of chestnut grove on Elba Island

[Siccardi E.](#), [Lazzaro L.](#), [Mugnai M.](#), [Viciani D.](#)

P23

The wetlands of Maremma (Tuscany, Italy): resurveying studies and investigations on new biotopes

[Lastrucci L.](#), [Sforzi A.](#), [Viciani D.](#)

P24

CAROLINA climate resilience over landuse change in semi-natural grasslands

[Volanti V.A.](#), [Siccardi E.](#), [Coppi A.](#), [Scartazza A.](#), [Peruzzi E.](#), [Sarti M.](#), [Bretzel F.](#), [Doni S.](#), [Latilla L.](#), [Mattioni M.](#), [Tefamariam B.G.](#), [Gavrishkova O.](#), [Lazzaro L.](#)



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