16th Workshop





EXCURSION TO LAKE FIBRENO NATURE RESERVE On motor way A24 (Rowe – Persona) to Awergens – Sora – Pasta Fibrens Medierramean serie formations segrations of the harstic lake, sudish in Valle Rowto and Averganie (Conca del Fucino) retorn on motorway A1 (elevation 0-700 m, boist may be scutish).

Lake Fibreno (300 m a.s.l.) is a spring lake located in Central Italy, in Lazio district, at the foothill of the Marsica mountain range (western por-

tion of the Na tional Park of Abruzzo, Lazio and Molise), finding its recharge area in the kanstie environ ment of carbonate apennines. In Fibreno ca-



tchement sinkhole formation is a common phenomenon because of the presence of thick carbonate deposits that are susceptible to dissolution due to circulating ground water.

The lake takes its origin from a complex of submerged and surface karsti springs of mineral-rich water, with a mean annual discharge of 10 m³·s-1. The lake has only one outlet: the homonymous river.

Water temperature at the spring is around 10 °C, without significant sea sonal variations. The average depth of the lake is around 2 meters, except in the submerged natural depressions (doline) "Le Codigliane" (15 meters) and "La Rota" (10 meters, where the Floating Island is located). Despite of the name, the constant flowing and the low temperature dur

ing all the year produce in Lake Fibreno characteristics more similar to ver habitat than to a lacustrine one

The sublacual karstic springs along the eastern shore of the lake provide different sedimentation rates at the opposite shores, shaping a flat coast line at $\mathbb W$ and a steep one at $\mathbb E,$ where sedimentation is prevented This topographical heterogeneity has produced a very diverse vege

mosaic and a recruitment of a rich local flora.

Lake Fibreno is a site where some outstanding anomalies for the flora and vegetation of the wetlands of peninsular Italy are concentrated. Here the probably extant southernmost Italian populations of Sphaguon pakum occur, along with the southernmost largest lacustrine stands of Cana parsiculars. The former are restricted on the surface of the Floating Island, a cup-formed core of Sphagwow peat and helophyta rhizomes, erratically floating on the water-body of a submerged doline, annex to the eastern most edge of the lake. The latter are impressive palisades of 1-1,5 m high tussocks all around the Island and along the S and SE shores of the lake. Geological evidences point out the existence in the area of a large lacu trine basin since Late Pleistocene. At that time, surface runoff drassed

down in this plain a large quantity of debris coming from weathering of the surrounding reliefs. Flooded sediments were settled out afterwards in a succession of sedimentary series. With the end of the fluvial cycle, debris built up a natural levee that caused the formation of a large lacus trine basin in the area actually occupied by Sora and Fibreno Plains

The progressive filling of the lake caused by changing in climatic conditions and neotectonic events, brought about the formation of peat deposits in the area, following different depositional cycles in a swampy er ronment

To these deposits has to be referred the formation of the Floating Island: a round-shaped portion of fen, originated around lake margins in waterlossed areas, that was somehow isolated from the bank and started to float.

The macroclimate in the area is submediterranean. Deciduous species-rich oak forests dominate the slopes of the catchement, and Mediterraneas evergreen woody species are scattered on topographical discontinuities

The comparison between the time series of the local precipitation and the discharge data related to the Fibreno river points out an alternance of dry and wet periods in respect of the mean yearly value of precipitation. According to precipitation time series of several meteo stations located in Central Italy, the last dry period started in 1980 and it's not over yet In consequence of this, the precipitation variability in the time series draws an evidence of availability constraints of the renewable water resources in the ecosystems.

Cross, Douglas, Diomy, Lynn & Ryan - Changes in the vegeta-tion of raised bogs in Ireland over the last 30 years; Apostolova & Meshinev Some long term vegetation changes in "Vrachanskie Balkan" National Park;

Pakalne - Changes in the mire vegetation of Latvia;
 Szabo, Szeglet et al. - Changing littoral vegetation of Lake Balton;

March 24 (Saturday)

Michl, Huck & Dengler - Classification of the montane-subalpine tall-herb regetation (Mulgedio-Aconsiteta) in temperate and boreal Europe based on individual relevés;

Golub & Sorokin - Circumpolar plant communities of the cl. Honckenyo-Elymetea arenarii Tsc. 1966;

Camarda et al. - Climase segetation and evolution-degradation processes in the calcareous area of Monte Albo (North-East Sadmia);

Rove - Elymo-Ammophiletum arenaniae and Festuco-Koelenetum glasscae along the Gulf of Reza;

Ewald - Bimodal IV-indicator spectra of reveal abrupt eutrpphica-tion of pine forest;

Roliéték - Vanability of Central-European subcontinental oak forests on geographical scale.

9.30 - 12.30 scientific session:Oral presentations

The Floating Island of Lake Fibreno

16.30 - 18.00 Oral session:



- Oral presentations
- Spada et al. Vestlation dynamics versus human impact: the man agement the coastal coaystems in Lagio; Storm, Stroh & Schwabe The ruderalization index: a sensitiv tool to indicate ruderalization processes in regetation dynamics?;
- Casella et al. Hydrological gradients and vegetation changes in the catchment of lake Fibreno...

March 25 (Sunday) 9.00 - 19.00 full day excursion to lake Fibreno

Masch 26 (Monday)

9.00 - 12.30 scientific session:

- 9.00 10.30 Oral presentations
- Chytry Vegetation of the Crech Republic a new monographic Gratani et al. - Adaptive responses of mediterranean maquis spe-
- cies to climate:
- cers to cismate; Camarda, Bundu, Manca & Piras The "Carta della Natura" mapping project in the Supramente area (Central East Sardénia) Integrating field survys with GIS and RS techniques; Csily et al. Come Darkey (the hydrosciological reference database of Hungarian natural and semi-natural vegetation types; Schaminée - New achievements of SynBioSys Europe: the present
- 30 - 11.30 Poster session C
- Botta-Dukát Recognizing reliable and vague clusters by crossvalidation:
- restantion, Regione Largio Assessorato et Diregione Regionale Ambiente Application of the EC Habitats Directive (Council Directive 92/43/EEC) in the conservation of plant populations and com-munistics in their natural habitats in the region of Largio. Manage-ment and strategies;
- men una surveyors) Regions Logio Assessorato et Directione Regionale Ambient Application of the EC Habrast Directive (Council Directive 92/45/EEC) es the conservation of plumitons and co-munities in their natural habitats in the region of Lavio. Case co mstudies in sensitive areas;
- Janisovo et al. Dierrishy of grassland vegetation in Slovakia -preliminary summary of national vegetation survey; Keiger-Stalkacova et al. The European status of Dutch plant communities distribution and responsibilities;
- Rodwell, Jefferson et al. British Lowland Grasslands in a Esno-pean context: distribution, key threats and research needs
 Tichy et al. New extension of TWINSPAN algorithm;
- Spada, Schirone et al Causalistic distribution of Quercus suber in Lagio (Central Italy).
- 11.30–12.30 Business Meeting: Summary, Publication, Planning for EVS 2008 (Topics, dates & Iocation).

Departure:

- ADDRESS EUROPEAN VEGETATION SURVEY: Contact person: John Rodwell Lancaster, United Kingdom e-mail: johnrodwell@tiscali.co.uk
- Organizing com mittee EVS-meeting 2007 Rome, San dro Pignatti e-mail: San dro.Pignatti@uniromal.it

16th WORKSHOP OF THE LA.V.S. WORKING GROUP FOR THE EUROPEAN VEGETATION SURVEY (E.V.S.) 'CHANGES IN VEGETATION' WORKSHOP PROGRAMME

March 22 (Thursday) 15.30 - 18.00:

- 5.30 18.00: pre-Workshop Colloquium on the use of Elfenberg Zeigerwerte indication values) in phyrosociology: Dengier & Jansen A reassusment of the Elfenberg indicator volues based on the large regetation database of Micklenburg-Vorpomenem with an advanced statistical method, Fantilk & Testi Land momitoring through Elfenberg scomagu;
- Pignatti The use of Ellenberg indicator values for the classifica-tion of plant communities.

non of plant communities. March 23 (Friday) .00 - segistration / 9.30 - 12.30 scientific session:

- ral presentations Illyés, Chytrý & Botta-Dukát - Study of semi-dry grasslands along a climatic gradient across Central Europe,
- Mohair et al. Dynamics of the Hungarian regetation as seen from the META database; Vittoy & Guisan New perspectives on floral enrichment of alpine
- Marchese, Poli Marchese & Grilio Floristic changes on the Quer cus ilex forests of the Mt. Etna natural Park (Southern Italy); Duuren Changes in Dutch vegetation;
- Rodwell Landscape and regelation change in a Northern English village 1500-2000.
- 4.30-16.00 scientific session: Poster session A Bacchetta et al – Integration of vegetational and multitemporal landscape analysis: a case study in the abandoned mining district of Montevecchio (South-Western Sardinia);
- Carmi et al. The changes in vegetation cover in the abandoned landscape of SE Slovenia;
- Ching Feng et al. Change of Floristic Composition along Eleva-tion Gradient in Taiwan;
- Fanelli et al. Soil parameters as indicators of succession in beech forest (Central Apenmines);
- Grinheiga Impacts on aquatic vegetation under climate changes in Latvia: case study of the river Salaca;
- Laime & Kalviskis Changes in Coastal Dune Vegetation of Latvia:
- Lososova Species trait changes in antropogenic vegetation in the Ceech Republic over the last century;
- Pal et al. Changes in a able weed regetation in the last 5 decades in South-Western Hungary;
- Richter Cinque Terre and Eolian Islands revisited vegetation change 20 years after;
- Richter Stromboli revisited: long-term plant succession on an active wlcano island;
- Tsiripidis, Bergmeier et al. On the determination of differential
- Willner et al. Trends of forest floor vegetation at the Integrated Monitoring Site "Zobelboden" in the Northem Calcareous Alps (Austria)

- Honrado et al. Vegetation dynamics in submiditerranean mar-ginal landscapes: patterns, processes and consequences. 14.30-16.00 scientific session: Poster session B Birð et al. - Intensification followed by extensification in the Kiskunsog: application of an old-new method; Bölöni - Changes in forest vegetation of a Pamonian hilly region in the last 150 years;
- Lysenko Halophytic vezetation from south-east of the Europea part of Russia;
- Otiphova Weed communities in the West Carpathians: change
- Priede Tall herb neophyte communities in Latvia characteristic of changing landscape; – significa
- Simmova Vegetation of nocks versus wall vegetation: what are differences in species traits in these habitat types;
- Western Carpathians revised classification;
- Spada et al. History of forest fragmentation in the Roman Cam-pagna the case of the guarties at the location of Magliana, Thurillat et al. Eltewinoal distribution of pascular plant diver-sity in the Central Apennines, Italy: a long-term project;
- asilopoulos & Tsinipidis Ripanian forest vegetation of SE Balkan Pemisula;
- Zeleny Diversity of vegetation in deep river valleys (Czech Repu hlin .30 - 18.00 Oral presentations
- Tronev & Roussakova Natural and anthropogenic changes in the Bulgarian vegetation during the last 100 years;
- de Ronde & Haveman Monitoring of local vegetation changes: th use of random relevis & GIS;
- El-Sheikh Analysis of old forest growth from tree size structur

- De Sanctis et al. Vegetation map of the Province of Rome
- in space and time



