

Monday, 1st April 2019

9:00-17:00 GYPWORLD Project Mid-term Review Meeting

Tuesday, 2nd April 2019

9:00-9:30 Welcome

9:30-10:15 *Key speaker.* Rebecca E. Drenovsky (Oberlin College, USA): Chihuahuan Desert gypsum endemics: patterns of adaptation in relation to phylogeny and distribution extent

10:15-11:00 Oral sessions I

10:15-10:30 José Ignacio Querejeta et al.: Gypsophytes use water from deeper soil layers than gypsum specialists during drought in a semiarid gypsum shrubland community: is deep rooting a key functional trait of gypsum specialists?

10:30-10:45 Luca Di Nuzzo et al.: Analysis of the taxonomic and functional diversity of lichens in an environmental gradient in Spain

10:45-11:00 Roberto López-Rubio et al.: Three-year maintained drought reduces diversity in gypsum annual plant communities

11:30-12:15 *Key speaker.* Juan Herrero (Agencia Estatal Consejo Superior de Investigaciones): Why gypsum makes soils so special for life

12:15-13:00 Oral sessions II:

12:15-12:30 Helga Ochoterena et al.: Looking for gypsum floras: a novel method based on geographic information systems and plant collections

12:30-12:45 Francisco J. Pérez-García et al.: Where to look for gypsophily phenomena? Towards a global mapping of the world gypsum outcrops

12:45-13:00 Fabian Martínez-Hernández et al.: Gypsum outcrops in Utah: an important habitat for plant conservation

14:30-15:00 Poster session

15:00-15:45 *Key speaker.* Adrián Escudero (Universidad Rey Juan Carlos, SPAIN): Living on gypsum soils: a challenge for plants and an opportunity for ecologists

15:45-16:30 *Key speaker.* Mehdi Abedi (Tarbiat Modares University, IRAN): Functional ecology of arid lands: microhabitats explain vegetation and lichens compositions

16:30-16:45 Carmelo M. Musarella et al.: Which habitat for Sicilian gypsophytes?

Wednesday, 3rd April 2019

9:00-9:45 *Key speaker.* Mike Lyons (Department of Biodiversity, Conservation and Attractions, AUSTRALIA): The gypsum flora and plant communities of Western Australia

9:45-10:30 *Key speaker.* Aran Luzuriaga (Universidad Rey Juan Carlos, SPAIN): Species coexistence in gypsum habitats of Spain

10:30-12:30 Oral sessions III

- 10:30-10:45 Sergio Muriel et al.: Do gypsophilic lichens exist? Towards a worldwide checklist of lichens living in gypsum soils
- 10:45-11:00 Pablo Tejero et al.: Tracking gypsophily across the phylogeny: 3 study cases.
- 11:30-11:45 Ana Foronda et al.: Gypsophyte shrubs enhance the survival and growth of perennial grasses in gypsum plant communities of the Middle Ebro Valley
- 11:45-12:00 Rocío Chaves et al.: Neighbourhood matters! Plant survival and fitness is favoured in experimentally manipulated communities with high phylogenetic diversity
- 12:00-12:15 Andreu Cera et al.: Evaluating the presence of fungi associated with plant roots of gypsum environments
- 12:15-12:30 Hossein Akhani: Diversity of the genus *Heliotropium* s.l. in SW Asia growing in xerophytic, psammophytic and gypsophytic communities
- 12:30-13.00 Working session GYPWORLD WP 1 & 2**
- 13:00-13:30 Working session GYPWORLD WP 3 & 4**
- 13:30-13:45 Closure
- 15:00 Departure to Santa Ninfa (TP) - Sicily
- 19:10-20:00 Giuliana Madonia, Salvatore Pasta: Presentation of the field trip on the Sicilian gypsum.

Thursday, 4th April 2019

Field trip held on “Grotta di Santa Ninfa” Nature Reserve and “Grotta di Entella” Nature Reserve