Program for the workshop

"Biological Soil Crusts in Ecosystems: Their Diversity, Ecology, and Management" August 22 – 25, 2010 in Retzbach-Zellingen near Würzburg

Sunday, August 22, 2010:

	Time	Topic
	From 2 p.m. onwards	Arrival
	From 5 p.m. onwards	Registration
•	6 p.m.	Dinner
	From 7 p.m. onwards	Icebreaker

Monday, August 23, 2010:

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Time	Topic
9:00 a.m.	Plenary Talk
	Belnap, J. and Lange, O.L.:
	Biological soil crusts: where have we been and what is the future?
9:40 a.m.	Dougill, A.J.; Thomas, A.D. and Mairs, H.:
	Spatial heterogeneity of cyanobacterial soil crusts across the Kalahari: biogeochemical implications and ecological
	change feedbacks
10:00 a.m.	Friedl, T.; Weber, B.; Mohr, K.I.; Darienko, T.; Salisch, M. and Reisser, W.:
	Diversity and distribution patterns of green algal communities in Biological Soil Crusts of a southern African region
10:20 a.m.	Malam Issa O.; Rajot, J.L.; Joulian, K.; Naisse, C.:
	Microbiotic soil crust distribution and characteristics across latitudinal gradient in Sahelian part of Western Niger
10:40 a.m.	Coffee Break
11:00 a.m.	Zaady, E.; Ben-David, E.A.; Nejidat, A.:
	Successional stage of biological soil crust: A case study for microphyte and microbial compositions using combined
	PLFA, DGGE, physical and biophysiological analyses
11:20 a.m.	Pietrasiak, N.; Johansen, J. and Graham, R.C.:
	Biogeomorphology of biological soil crusts in the Mojave Desert
11:40 a.m.	<u>Williams, W.</u> ; Büdel, B.; Driscoll, C.:
	Cyanobacterial soil and rock crusts from the dune fields to the savannah – An ecosystem report from 260 locations
	across 1.63 million km ² throughout Queensland, Australia

12:00 a.m.	Peer, T. and <u>Türk, R.</u> :
	Biological soil crusts in alpine ecosystems
12:20 a.m.	Johansen, J.R.:
	Taxonomic Diversity in the terrestrial Pseudanabaenales: What happened to Schizothrix calcicola?
12:30 a.m.	
2:00 p.m.	Gommeaux, M.; Ayachi, S.; Marin, B.; Ponthieu, M.; Cancès, B., Ralahimanana, C.; Malam Issa, O.; Moerdijk, T.
	and Stal, L.:
	Influence of slope and land use on biomass, diversity and physic-chemical properties of BSC sahelian part of western Niger
2:20 p.m.	Dojani, S.; Büdel, B.; Deutschewitz, K. and Weber, B.:
	Rapid succession of Biological Soil Crusts after experimental disturbance in the Succulent Karoo, South Africa
2:40 p.m.	Pfiz, M.; Küppers, M. and Loris, K.:
	Wind erosion of lichen dry matter and its recovery in the Central Namib Desert
3:00 p.m.	<u>Li, X.R.</u> :
	The recovery of biological soil crusts after sand burial in arid desert regions of China
3:20 p.m.	Doudle, S; Williams, W.:
· · · · · · · · · · · · · · · · · · ·	Can we kick-start mining rehabilitation with cyanobacterial crusts?
3:30 p.m.	Coffee Break
3:50 p.m.	Gläßer, C.:
	Mapping and monitoring of lichens and mosses in anthropogenic landscapes using spectral field measurements and
	hyperspectral airborne imagine spectrometry data
4:10 p.m.	Karnieli, A.:
	Review of Multispectral and Multitemporal Studies on Biological Soil Crusts over the Sand Dunes of the
	Northwestern Negev Desert, Israel
4:30 p.m.	Sannier, C.; Beaugendre, N.; Desprats, J.F.; Cerdan, O.; Valentin, C.; Malam Issa, O.; Rajot J.L.:
	Spatial distribution of biological soil crusts in the Sahel from local to regional scale
4:50 p.m.	Maestre, F.T.; Bowker, M.A.; Escolar, C.; Martinez, I. and Escudero, A.:
	Testing the stress-gradient hypothesis with biological soil crusts: competition dominates and modulates species
	richness
5:10 p.m.	
	Effects of global change on the structure and functioning of biological soil crust communities
5:30 p.m.	End of talks
6:30 p.m.	Departure to wine-tasting evening

Tuesday, August 24, 2010:

Time	Topic
9:00 a.m.	Plenary Talk
	Sancho, L.G.; Pintado, A.; Green, A. and Lázaro, R.:
	High activity by lichen dominated soil crust in Tabernas desert; one of the hottest and driest areas of Europe
9:40 a.m.	Bouchet, T.; Bertrand, I.; Malam Issa, O.; Desprats, J.F., Rajot, J.L.; Cerdan, O.; Vaentin, C.; Fatondji, D.:
	Assessment of carbon and nitrogen losses due to water erosion on soil surface with microbiotic crusts in the
	Sahelian part of western Niger
10:00 a.m.	<u>Thomas, A.D.</u> ; Hoon, S.R. and Dougill, A.J.:
	A revised Q ₁₀ model to describe soil respiration response to temperature, moisture and light on biologically-crusted
	soils along the Kalahari Transect
10:20 a.m.	Barger, N.N. and Castle, S.:
	Towards a better understanding of nitrogen loss pathways in desert ecosystems: Denitrification from biologically
	crusted soils
10:40 a.m.	Coffee Break
11:00 a.m.	
	Can the ecological functions of biological soil crusts from the Sahelian zone quantitatively impact on soil carbon and
	nitrogen cycles?
11:20 a.m.	
-	What determines multi-function in semi-arid soils? Biodiversity and patch size distribution of biological crusts
11:40 a.m.	<u>Williams, W.</u> ; Reichenberger, H.; Rose, N.; Büdel, B.:
	Cyanobacteria highly active during the wet season – a long-term study at Boodjamulla National Park, Queensland,
-	Australia
12:00 a.m.	<u>Colesie, C.</u> and Büdel, B.:
-	Biological soil crusts from Antarctic Dry Valleys: composition and photosynthetic capacity
12:20 a.m.	Cowan, D.A.; Sohm, J.A.; Makhalanyane, T.; Capone. D.G.; <u>Green, T.G.A.</u> ; Cary, S.C. and Tuffin, I.M.:
	Hypolithic communities: a hidden nitrogen source in Antarctic desert soils
12:30 a.m.	Lunch
2:00 p.m.	•
6:00 p.m.	Dinner

Wednesday, August 25, 2010:

Time	Торіс
9:00 a.m.	Garcia-Pichel, F.; Johnson, S.; Strauss, S.; Potrafka, R.; Bates, S. and Soule, T.:
	The nitrogen cycle of biological soil crusts: who's doing what where, and why it matters
9:40 a.m.	Breckle, SW.; Veste, M.; Littmann, T. and Yair, A.:
	Arid sand dunes of Nizzana, their biological soil crusts linking pattern and ecosystem processes – an
	interdisciplinary approach
10:00 a.m.	Yair, A.; Almog, R. and Veste, M.:
	Differential hydrological response of biological topsoil crusts along a rainfall gradient in a sandy arid area: northern
	Negev desert, Israel
10:20 a.m.	
-	Biological soil crusts on inland dunes in NE Germany: Can we link succession with hydrology?
10:40 a.m.	
11:00 a.m.	
-	"Dry and high" – Ecophysiological performance of filamentours green algae from alpine soil crusts
11:20 a.m.	Lakatos, M; Hartard, B.; Cuntz, M.; Máguas, C.:
	Water vapour exchange of biological crusts effects carbon gain, soil properties and C ¹⁸ O ₂ -a novel perspective
11:40 a.m.	Cerdan, O.; Ducluzeau, E.; Desprats, C.; Valentin, C.; Malam Issa, O.; Rajot, J.L.; Bouchet, T.:
	The role of biological soil crusts in soil detachment
12:00 a.m.	Valentin, C.; Malam Issa, O.; Rajot, J.L.; Cerdan, O.; Desprats, J.F.; Bouchet, T.; Hermann, L.:
	Variability of hyrological properties of soil surface with microbiotic crusts in the Sahelian part of western Niger
12:10 a.m.	
	N-Toolbox to assess microbial functions in initial soils
12:30 a.m.	
	and Martinez, I.:
	Are the functional effects of biological soil crusts mediated by the below-ground bacterial community?
12:40 a.m.	· · · · · · · · · · · · · · · · · · ·
	The view from within: A new approach to appropriate length scales in order to understand bio-physical processes in
40.50	biologically crusted dryland soils
12:50 a.m.	Lunch
2:00 p.m.	Farewell