

# FINAL PROGRAM OF THE 1st INTERNATIONAL CONFERENCE ON COMMUNITY ECOLOGY ComEc 2017

## September 27, Wednesday

19:00 - 21:00     **Welcome reception**  
Mátyás I-II. Foyer

## September 28, Thursday

**Room Mátyás I.**

**Room Mátyás II.**

**Room Margit**

8:00 - 10:00     **Registration**

10:00 - 10:15     **Opening**

10:15 - 11:00     Plenary / Ursula Scharler (ZAF):  
Contribution of communities to  
ecosystem functioning in aquatic  
systems

11:00 - 11:30     COFFEE BREAK

Metacommunities		Forest ecology	Macroecology
Room Mátyás I.		Room Mátyás II.	Room Margit
11:30 - 11:50	Péter Sály (HUN): Effect of field sampling design on variation partitioning in a dendritic stream network	Chia-Hao Chang (TWN): Relationship between avian communities and vegetation structure in secondary forest and betel nut plantation in Taiwan	Filipe Chichorro de Carvalho (FIN): Which traits predispose species to extinction? A review
11:50 - 12:10	Thibault Leboucher (FRA): Drivers of stream diatom beta-diversity from local to global scales	Péter Ódor (HUN): The effects of forestry treatments on the community structure of different organism groups	Rafael Barreto de Andrade (ITA): Congruency across taxa and spatial scales: Are we asking too much of species data?
12:10 - 12:30	Zsófia Horváth (AUT): Isolation drives the strength of species sorting across multiple taxonomic groups in alpine lakes	Yoan Paillet (FRA): The indicator side of tree microhabitats: a multi-taxonomic approach	Hugo Fort (URY): A method to make quantitative predictions on global community quantities with incomplete information on model parameters
12:30 - 12:50	Birgit Dümmer (GER): Varying patterns on varying scales: A metacommunity analysis of nematodes in European lakes	Garvin Schulz (GER): Transformation of lowland rainforest into plantations: Changes in the diversity and composition of trophic groups of protists	Nicodemo Passalacqua (ITA): Three-dimensional image processing to survey productivity and dynamics of pasture communities in the Pollino National Park (Southern Italy)
12:50 - 13:10	Ildikó Szivák (HUN): Effect of niche characteristics and site position on occupancy frequency distribution of stream macroinvertebrates	Agnieszka Kosewska (POL): Natural and artificial renewal of pine trees as a place for occurrence of ground beetles and spiders	Mansour Amroun (DZA): Comparison of the trophic ecology of two mammals: the Wild boar <i>Sus scrofa</i> and the porcupine <i>Hystrix cristata</i> in the northern slope of Djurdjura (north of Algeria)
13:10 - 14:40	LUNCH		

	Metacommunities	Biodiversity and ecosystem functioning	Space and landscapes
	Room Mátyás I.	Room Mátyás II.	Room Margit
14:40 - 15:00	Ádám Lovas-Kiss (HUN): Secondary propagule dispersal by waterbirds	Louis-Felix Bersier (CHE): Increased temperature disrupts biodiversity-ecosystem functioning relationships	Balázs Deák (HUN): Factors affecting species composition of isolated grasslands – the role of kurgans in preserving steppe vegetation
15:00 - 15:20	Emma-Liina Marjakangas (NOR): Effects of forest fragmentation on seed dispersal networks in Brazilian Atlantic rainforest	Markus Franz (GER): Long-term records of Baltic hard-bottom communities: the role of metapopulation processes in compensating climate variability	Juliana Pereira (HUN): Protecting landscape connectivity: multi-node selection of key habitat patches based on fragmentation and reachability
15:20 - 15:40	Fabiola Nieto-Rabiela (MEX): Viral metacommunities of bats and rodents	Francisco R. Barboza (GER): Settlement in hard-bottom communities under climate change: seasonal constraints and opportunities opened up by future warming	Péter Batáry (HUN): Habitat management and agricultural vs. forested landscape context determine butterfly and bird diversity in orchard meadows and calcareous grasslands
15:40 - 16:00	Alessandro Chiarucci (ITA): Plant metacommunity system in the islands of the Tuscan archipelago	Rui Fernandes (CHE): Multiple factors affecting prediction accuracy in stacked species distribution models – a "virtual ecologist" approach	Beáta Oborny (HUN): Advancing versus retreating fronts: the fine-scale dynamics of treeline shifts
16:00 - 16:20	John Davison (EST): Root-symbiotic fungal communities on remote islands are diverse but functionally distinct	András Abonyi (HUN): Phytoplankton functional diversity shifted gradually due to global warming, human impacts and oligotrophication in the Danube River at long-term scale	Andrea Catorci (ITA): Successional patterns of ecosystem engineers at the upper altitudinal limit of the Dry Puna (Peru): a facilitation cascade process

16:20 - 16:35 BREAK

	Statistical ecology	Biodiversity and ecosystem functioning	Ecological networks
	Room Mátyás I.	Room Mátyás II.	Room Margit
16:35 - 16:55	Lorenzo Fattorini (ITA): Design-based mapping of natural resources and their diversity	Sarah Gray (CHE): The impact of increasing temperatures on the diversity-dispersal relationship in metacommunities	Dunja Lukic (AUT): Turbidity mediates the relative importance of herbivory and carnivory in a fairy shrimp
16:55 - 17:15	Sonia Lombardi (ITA): Structural equation models account for ecological complexity	Yong Cao (USA): Response of species diversity to disturbance and environmental variability depends on how it is measured	Rajat Karnatak (GER): Modeling the influence of aquatic-terrestrial coupling on aquatic biodiversity patterns
17:15 - 17:35	Peter Vermeiren (CHE): Confronting existing knowledge with data: trait based modeling of macro-invertebrate community composition in Swiss rivers under multiple stressors	Rudolf P. Rohr (CHE): Persist or produce: A community trade-off tuned by species evenness	Andrew J. Davis (GER): Multiplex networks: expanding our view of species interactions
17:35 - 18:05	COFFEE BREAK		
18:05 - 18:50	Plenary / Owen Petchey (GBR): Is Ecology Predictable? Lessons from experimental microbial ecosystems		

18:50 - 19:35 Plenary / Jens M. Olesen (DNK):  
Ecological networks

20.00 Board meeting

## September 29, Friday

### Room Mátyás I.

### Room Mátyás II.

### Room Margit

9:00 - 09:45 Plenary / Duccio Rocchini (ITA):  
How to monitor community diversity  
from space?

09:45 - 10:15 COFFEE BREAK

### Food webs

### Plant ecology

### Diversity

### Room Mátyás I.

### Room Mátyás II.

### Room Margit

10:15 - 10:35 Anton Potapov (GER): Size  
compartmentalization in soil food  
webs

David Tierney (AUS): The intersection  
of diversity metrics and spatial  
mapping: new insights into regional  
vegetation patterns for complex  
communities

Andrey N. Tsyganov (RUS): The effect of  
habitat hierarchy on testate amoeba  
communities: Additive partitioning of  
biodiversity

10:35 - 10:55	Anett Endrédi (HUN): Structure and dynamics of food webs: a large-scale comparative study	Judith Bieberich (GER): Impact of the invasive <i>Impatiens glandulifera</i> on the growth of co-occurring native plants	Mauricio Cetra (BRA): Taxonomic and functional diversity patterns of stream-fish assemblages from Brazilian Atlantic Rain Forest
10:55 - 11:15	Ágnes Szilágyiné Mórén (HUN): Single-species MSY-assessments as a predictor for multi-species fisheries? The additivity of pairwise perturbations in food webs	Balázs András Lukács (HUN): Chemical and physical properties act as filters on aquatic river plant communities: A trait-based study	Cristina Tha (ITA): Functional diversity along altitudinal gradients: a multi-taxa approach in the Western Alps
11:15 - 11:35	Nadja J. Kath (GER): Classic allometric trophic network (ATN) models overestimate trophic transfer efficiency in food webs	Alessandro Bricca (ITA): Functional variation of <i>Brachypodium genuense</i> (DC.) Roem. et Schult in sub-Mediterranean grasslands	Tommi J.M. Mononen (FIN): Pathogen predators can encapsulate and isolate environmental pathogen reservoirs
11:35 - 11:55	Carolina Sánchez (ESP): Comparison of predator–parasitoid–prey interaction models for different host plant qualities	Rebeka Balogh (HUN): Post-exclosure community dynamics in acidic sandy grasslands: cryptogams, phanerogams and soil seed bank	Anke Frank (GER): Phenological variation in urban <i>Arabidopsis thaliana</i> populations under natural habitat and controlled conditions
11:55 - 13:10	<b>Poster session</b> Mátyás I-II. Foyer		
13:10 - 14:40	LUNCH		

	Food webs	Plant ecology	Aquatic ecology
	Room Mátyás I.	Room Mátyás II.	Room Margit
14:40 - 15:00	Csaba F. Vad (AUT): Chrysophyte algae-zooplankton interactions in lakes: effects on secondary production and diversity	R. Sagar (IND): Intermediate anthropogenic disturbances determine plant species composition and diversity of Indian dry tropical forest communities	Zsolt Nagy-László (HUN): Phytoplankton functional niches in fluvial ecosystems
15:00 - 15:20	Maysa Ito (GER): Detecting early signs of stress in a benthic system by carbon flows analysis	Péter Török (HUN): Ecological theories provide strong support to habitat restoration: A conceptual framework	Sabine Wollrab (GER): Patterns of top-down regulation along an enrichment gradient for a series of marine lakes and lagoons
15:20 - 15:40	Phil Jellyman (NZL): Quantifying temporal variability in food-web structure: are environmental drivers more important than network position?	Orsolya Valkó (HUN): Grassland recovery on linear landscape elements – Promising example to restore natural vegetation	Tito Almeida (BRA): Associations of amphipods of the South-Southeastern Brazilian Continental Shelf
15:40 - 16:00	Marco Scotti (GER): The effect of phenology on the structure of a benthic food web	Béla Tóthmérész (HUN): Drivers of plant diversity in urban green spaces	Alexandre Miranda Garcia (BRA): Spatiotemporal variation of pelagic fish assemblages across neotropical lakes in a subtropical wetland
16:00 - 16:15	BREAK		

Mazzoleni course		Plant ecology	Human systems
Room Mátyás I.		Room Mátyás II.	Room Margit
16:15 - 16:35	Stefano Mazzoleni (ITA): Inhibitory effect of extracellular DNA: from models and theoretical reasoning to experimental evidence	Zhenhong Wang (CHN): Process strengths determine the forms of the relationship between plant species richness and primary productivity in plant community	Lasse Ruokolainen (FIN): The Environment-Microbiota-Health axis; how acquired microbial communities affect host immunity
16:35 - 16:55		Federico M. Tardella (ITA): Functional response of graminoid species to changing summer water availability: insight into the effects of climate change in sub-Mediterranean meadows	Kuei-Hsien Liao (SGP): A neighbourhood landscape design framework for enhancing ecosystem services in the urban area
16:55 - 17:15		László Erdős (HUN): The effects of habitat type and precipitation on <i>Quercus robur</i> seedling emergence and survival	Eszter Lellei-Kovács (HUN): Carbon and water cycle in grassland ecosystems of diverse water availability – modelling with Biome-BGCMuSo
17:15 - 17:35		Melinda Halassy (HUN): Changes of assembly rules with time and restoration treatments in an old-field succession	Béla Ralovich (HUN): Effects of the biological life and mankind on the Earth (mainly between 1778 and 2015)
17:35 - 18:05	COFFEE BREAK		
18:05 - 18:50	Plenary / Enrico Feoli (ITA): Classification of plant communities and alpha and beta diversity of vegetation systems		

18:50 - 19:35 Plenary / Ulrich Sommer (GER):  
The food web implications of  
plankton body size

19:35 - 19:50 **CLOSING, PRIZES**

## September 30, Saturday

9:30 - 13:30 **Tour to Szentendre**

14:00 - 18:00 **Wine tasting in Etyek**

## Poster presentations

### Mátyás I-II. Foyer

**Tito Almeida (MEX)**

Estuary – inner continental shelf coupling and polychaete assemblages in southern Brazil

**Réka Andrési (HUN)**

Comparative study of the *Fomes fomentarius* and *Trametes gibbosa* beetle community in Hidegvízvölgy

**László Bali (HUN)**

Comparative study of ground beetle and ground-dwelling spider assemblages

**Sándor Bartha (HUN)**

Quantifying biotic filter effects in old field succession

## Poster presentations

### Mátyás I-II. Foyer

**Krisztina Bereczki (HUN)**

How do belowground organisms affect the yield and secondary metabolite production of marjoram (*Origanum majorana* L.)

**Kuber P. Bhatta (NOR)**

Scale sensitivity of the relationship between alpha and gamma diversity along alpine elevation gradient of central Nepal

**Martin Bitomský (CZE)**

Major plant lineages can be more informative than phylogenetic corrections

**Zoltán Botta-Dukát (HUN)**

Changing the relative importance of environmental filtering and mass effect along a productivity gradient

**Diego Castro (BRA)**

The influence of catchment- and site-scale variables on taxonomic and trait composition of insect assemblages in neotropical savanna streams

**Evangelia Charalampous (GER)**

Phytoplankton cell size indicates nutrient sensitivity and vulnerability to grazing

**Adna Ferreira Silva Garcia (BRA)**

Interspecific variability in isotopic composition ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ) of congeneric mullet species in marine and estuarine zones

**Krishan Kaushik (HUN)**

Meeting of a monodominant species with diverse species assemblages

**Renata Kędzior (POL)**

Co-occurrence pattern of ground beetle (Coleoptera, Carabidae) assemblages along pollution gradient in scotch pine forest

## Poster presentations

### Mátyás I-II. Foyer

**Grzegorz Kłosowski (POL)**

Biosorption potential of the coenobial freshwater green algae *Pseudopediastrum boryanum* var. *longicorne* for the removal of chromium(VI) ions from polluted aquatic ecosystems and industrial wastewaters

**Attila Lengyel (HUN)**

Evaluating the relative importance of methodological decisions in the analysis of functional beta diversity and an environmental gradient

**Szabolcs Lengyel (HUN)**

Changes in terrestrial animal communities following grassland restoration

**M. S. Linares (BRA)**

Invasive bivalves in neotropical reservoirs increase the complexity of benthic communities

**Eugenia Lopez Lopez (MEX)**

Aquatic macroinvertebrates, functional diversity and water quality in the Sinaloa river, Mexico, a basin with predominant agricultural land use

**Gábor Matus (HUN)**

Sheep endozoochory in a small protected area: benefit or harm to a vulnerable community?

**Michael Meyer (GER)**

Influence of temporal diversification on invertebrate communities in a long-term crop-rotation experiment

**Tamás Morschhauser (HUN)**

Change of diversity of macrofungi and vascular plants in succession of wood pasture

**Catarina D. G. Netto (BRA)**

Evolution of flammability in Brazilian cerrado and seasonal forest communities

## Poster presentations

### Mátyás I-II. Foyer

**Krystian Tadeusz Obolewski (POL)**

Can population of *Ephemera danica* (Müller 1764) mayfly be an indicator of the effects of the restoration of a small lowland river?

**Pamela Eugenia Pairo (ARG)**

Measuring fractions of beta diversity of plants along a cronosequence of eucalypt plantations in the pampas of Argentina

**Nikos E. Papanikolaou (GRC)**

Testing the viability of the steady-state satiation equation adopting a Bayesian framework

**Natasa Pipenbaher (SVN)**

Secondary succession in the abandoned North Adriatic Karst grasslands from functional and phylogenetic perspective

**Hugo Reis Medeiros (BRA)**

Forest cover positively affects social wasp communities in brazilian agricultural landscapes

**Jacinto Elías Sedeño-Díaz (MEX)**

Functional diversity in aquatic Jacinto assamblages in the arid basin of Río Grande, a natural protected area, Mexico

**Vera Senánszky (HUN)**

Trophic networks: comparative analyses and methodological problems