Program of conference Ekologie 2024

Czech Society for Ecology

University of South Bohemia in České Budějovice
Faculty of Science

Dear colleagues,

On behalf of the hosting Czech Society for Ecology and the hosting Faculty of Science of the University of South Bohemia, we look forward to welcome you all in the town of České Budějovice, Czech Republic on 11th-13th September 2024 for the 9th conference of the Czech Society for Ecology.

The themes of the conference cover the entire field of ecology as well as its applications, including nature conservation. We are confident that the conference will have a high scientific impact and will offer numerous opportunities to discuss various scientific and practical problems with participants from the Central Europe.

We will be offering an exciting programme of internationally renowned plenary speakers, diverse thematic sessions, and networking events. We received a wealth of diverse and high quality submissions and thus believe the Ecology 2024 will be a beneficial event for all participants and look forward to seeing you in České Budějovice!

Organising committee

Program at a glance

WEDNESDAY 11.9. 2024	
SINCE 11:00	**Registration**
12:00-12:10	**Opening**
Forest dynamics and biodiversity: impacts of climate and disturbances	
	Keynote talk: Jan Altmann
12:10-14:00	Lanta, Čada, Matula, Kozel, Adámek, Jílková, Hladká
14:00-14:20	**Coffee break**
Insights from rewilding, succession, and restoration	
	Keynote talk: Peter Mikula
14:20-16:10	Jirků, Konvička, Večeřa, Roleček, Hovorková, Prach, Mones
16:10-16:30	**Coffee break**
Vojtěch Jarošík's Award (winners, talks of awardees)	
16:30-17:50	Singh, Bystřický, Man, Tichá, Lisner, Brlík
17:50-18:15	**Coffee break**
18:15-19:15	**Plenary talk**
	Jens-Christian Svenning
since 20:00	**Social evening in Solnice**

THURSDAY 12.9. 2024	
Diversity across scales I.	
	Keynote talk: Alena Sucháčková
8:30-10:10	Šímová, Quétin, Rubio-López, Machac, Korejs, Vejmělka
10:10-10:30	**Coffee break**
Diversity across scales II.	
10:30-12:00	Tószögyová, Storch, Falteisek, Remeš, Volf, Těšitel, Frouz
12:00-12:20	**Coffee break**
Patterns in life histories	
12:20-13:30	Dillenseger, Kratochvíl, Boukal, Rimoldi, Bohdalková
13:30-14:30	**Lunch**
14:30-16:30	**Poster session** (with refresment)
Biodiversity conservation	
	Kyenote talk: Hana Šigutová
16:30-17:55	Segrestin, Janíková, Nedvěd, Petrusek, Knotková
18:00-19:00	**General Assembly of the Society – Valné shromáždění ČSPE (in Czech)**
20:00	**Banquet**

FRIDAY 13.9. 2024	
Species interactions and preferences	
	Keynote talk: Aleš Buček
9:00-10:30	Bernatová, Telenský, Jayanth, Sam, Libra, Stojanova, Konečná
10:50-11:10	**Coffee break**
Functional ecology	
11:10-12:35	Lepš, Herben, Schnablová, Lillipuu, Mudrák, Linke, Kaštovská
12:00-12:20	**Coffee break**
12:45	**Announcement of the best student presentations, Closing ceremony**
13:30-14:30	**Lunch**

Detailed conference program (**Student contributions*)

Wednesday 11. 9. 2024

From 11:00	**Registration**	
12:00-12:10	**Opening**	
12:10-14:00	**1st session**	**Forest dynamics and biodiversity: impacts of climate and disturbances**
12:10	**Keynote talk: Jan Altmann**	Tree rings: a window to the past, a guide to the future
12:35	Vojtěch Lanta	Changes in plant diversity of European lowland forests: increased homogenization and expansion of shade-tolerant trees
12:47	Vojtěch Čada	Biodiversity and carbon sequestration potential of old forests outside strictly protected areas
12:59	Radim Matula	Unraveling the influence of climate change on tree growth dynamics and phenology in European forests
13:11	Petr Kozel	Multi-taxa biodiversity response on a temperate forest wildfire in a protected area
13:23	Martin Adámek	Effect of forest stand composition on fire severity and post-fire vegetation development
13:35	Veronika Jílková	Soil carbon storage as affected by forest type, soil community and climate change
13:47	*Tereza Hladká	Diversity comparison of bird communities between Nearctic and Western Palearctic temperate forests
14:00-14:20	**Coffee break**	
14:20-16:10	**2nd session**	**Insights from rewilding, succession, and restoration**
14:20	**Keynote talk: Peter Mikula**	The landscape of fear in urban jungle: what we can learn from flushing animals in urban areas?
14:45	Miloslav Jirků	Rewilding in Czechia 2015-2024: from the modest start to countrywide implementation
14:57	Martin Konvička	Ecological lessons from Czech trophic rewilding projects: Soils, plants and selected insects
15:09	Martin Večeřa	Environmental factors, past and current land use drive diversity of different plant species groups in steppe grasslands of Southern Moravia
15:21	Jan Roleček	Peri-Carpathian forest-steppe: concept, postglacial history, biodiversity
15:33	*Marie Hovorková	Ant community responses to grassland restoration: legacy effects of colony foundation causes lower diversity
15:45	Karel Prach	Vegetation succession across biomes of the World
15:57	Gonzalo Velasco Mones	The manifold faces of diversity along succession: a study in Central European Vegetation
16:10-16:30	**Coffee break**	
16:30-17:50	**3rd session**	**Vojtěch Jarošík's Award (winners, talks of awardees)**
16:30	Intro	
16:35	Patrícia Singh	Future prospects of European fen habitat types
16:47	Pavel Karel Bystřický	The one who are many: Ecological differentiation and frequent syntopy of our common crustacean
16:59	Matěj Man	Can topography and forest canopy structure substitute microclimate measurements? Bryophytes say no!
17:11	Anna Tichá	Climate, soil saturation, and peatlands: Key factors in lake brownification over millennia
17:23	Aleš Lisner	Species diversity is a poor predictor of productivity: insights from a field biodiversity experiment
17:35	Vojtěch Brlík	Sulfur isotopes in Africa: A promising tool to trace not only bird migration
17:50-18:15	**Coffee break**	

Detailed conference program (**Student contributions*)

18:15-19:15	**Plenary talk**	
	Jens-Christian Svenning	Trophic rewilding as a restoration approach under emerging novel biosphere conditions
20:00	**Social evening in the Solnice**	

Thursday 12. 9. 2024

8:30-10:10	**4th session**	**Diversity across scales I.**
08:30	**Keynote talk: Alena Sucháčková**	Quaternary biogeography of Palearctic butterflies across diverse biomes
08:55	Irena Šímová	Divergent spatiotemporal diversity dynamics of trees and herbs during the Late Quaternary
09:07	*Maxime Quétin	Clade-specific factors linked to present-day diversification of vertebrates in the geographic space
09:19	*Iñigo Rubio-López	Phylogenetic scale influences time, diversification and energy effects on vertebrate species richness
09:31	Antonin Machac	Species richness gradients are not universal, but change systematically across the phylogeny
09:43	*Kryštof Korejs	Functional diversity of frugivore and insectivore assemblages along the Mount Wilhelm elevational gradient
09:55	*František Vejmělka	Mammalian species richness rising with elevation in a complete rainforest gradient of New Guinea
10:10-10:30	**Coffee break**	
10:30-12:00	**5th session**	**Diversity across scales II.**
10:30	Anna Tószögyová	Geometric causes of species rarity
10:42	David Storch	Mathematically and biologically consistent framework for presence-absence pairwise indices
10:54	Lukáš Falteisek	Does global species pool driving the diversity of prokaryotic communities?
11:06	Vladimír Remeš	Secondary sympatry and syntopy in passerine birds across the globe
11:18	Martin Volf	Trends in plant chemical diversity along ecological gradients
11:30	Jakub Těšitel	Parasitic plants in Europe. Are they associated with high community diversity?
11:42	Jan Frouz	Global pattern of soil fauna driven bioturbation in relation to climate and litter quality
12:00-12:20	**Coffee break**	
12:20-13:30	**6th session**	**Patterns in life histories**
12:20	*Guillaume Dillenseger	Spatial and temporal patterns of juvenile and adult survival in shorebirds
12:32	Lukáš Kratochvíl	Implications of determinate growth for body size, life-history evolution and sexual size dimorphism in lizards
12:44	David Boukal	Can warming-induced reductions in body size affect community structure?
12:56	*Andreas Rimoldi	Sexual dichromatism in shorebirds: a comparative perspective
13:08	*Eliška Bohdalková	The dynamics of local extinctions in North American birds
13:30-14:30	**Lunch**	

Detailed conference program (**Student contributions*)

14:30-16:30	**Poster session**	
16:30-17:55	**7th session**	**Biodiversity conservation**
16:30	**Kyenote talk: Hana Šigutová**	Unraveling the factors underlying the freshwater biodiversity crisis using odonates as a model group
16:55	Jules Segrestin	Biodiversity loss disrupts seasonal carbon dynamics in a species-rich temperate grassland
17:07	Eva Janíková	Influence of biodiversity loss and environmental factors on shaping plant community competition.
17:19	Oldřich Nedvěd	The enemy release hypothesis among exotic insect predators
17:31	Adam Petrusek	Monitoring of native and invasive crayfish from environmental DNA: experience from Czech waters
17:43	*Kateřina Knotková	Interactions between parasitic plants and invasive hosts: the experimental evidence
18:00-19:00	**General Assembly of the Society – Valné shromáždění ČSPE (in Czech)**	
20:00	**Banquet**	

Friday 13. 9. 2024

9:00-10:30	**8th session**	**Species interactions and preferences**
09:00	**Keynote talk**: **Aleš Buček**	Termites and their parasites as a model system for investigation of convergent life strategies
09:25	*Martina Bernatová	Multiple predator effect of arthropod and vertebrate predators on vitality of pear trees
09:37	Tomáš Telenský	Interspecific competition in birds – multi-species analysis using continental-scale demograpic data
09:49	*Ankitha Jayanth	Spatial and temporal variation of predation pressure at Northern Lapwing breeding grounds
10:01	Katerina Sam	Vertebrates, more than ants, protect the forest trees from herbivores, and they do it better in temperate then in tropical forests
10:13	Martin Libra	Cascading beta diversity of parasitoids on caterpillars across 75 000 km2 of continuous tropical rainforest
10:25	Bojana Stojanova	Parallel adaptation of plants to URBAN POLLinators
10:37	Marie Konečná	Myrmecochorous plants and their ecological preferences in Czech vegetation
10:50-11:10	**Coffee break**	
11:10-12:35	**9th session**	**Functional ecology**
11:10	Jan Lepš	There is no single trait–environment relationship: when are Community Weighted Means tests correct?
11:22	Tomas Herben	Growth strategies of perennial herbs in temperate climates
11:34	Renáta Schnablová	From axils to growth: Key traits for seasonal resprouting in perennial herbs
11:46	*Epp Maria Lillipuu	Does high functional trait similarity to a neighbor force grassland species to change their own traits?
11:58	Ondřej Mudrák	Limiting factors of plant establishment in restored grasslands of White Carpathian Mts.
12:10	*Daniel Linke	Insights into hind wing tails of Neotropical Skipper butterflies
12:22	Eva Kaštovská	Potential sources and drivers of increased phosphorus input in remote glacier lakes in Tatra Mountains
12:45	**Announcement of the best student presentations, Closing ceremony**	
13:30-14:30	**Lunch**	

List of posters (**Student contributions*)

1) ***Applová Markéta:** Floral and leaf economic traits: a comparative analysis of resource allocation strategies
2) ***Bílková Eva**: Dynamics of dragonfly populations in central european peatlands under climate change
3) **Blabolil Petr**: Popularisation of salmonids parasitic cnidarians through an educational poster
4) ***Bužleta Filip:** Stalking a non-native species on social media: updating the distribution of *Paysandisia archon* (Burmeister, 1879) in Croatia through citizen science
5) **Cerezer Felipe O.**: Equilibrium dynamics shape species richness patterns in terrestrial tetrapods
6) ***Charalambous Constantinos**: Temporal variation in the distribution-abundance relationship in waterbirds
7) **Choma Michal:** Ectomycorrhizal fungi and soil nitrogen losses in spruce forests with alleviated nitrogen limitation
8) **Pires De Paula Cesar Caio**: Transcriptomic insights in abilities of orchid mycorrhizal fungi to assimilate nitrate
9) ***Das Paresh Nath**: Predicting community response to climate change using thermal performance of component species
10) ***De La Cruz Henry J.**: Importance of the arbuscular mycorrhizal fungal composition for different host plant species
11) ***Dusík Daniel**: Coppicing effects on soil-dwelling microannelids in the Podyjí National Park (Czechia)
12) ***Eusebio Leandro**: Predictive distribution modeling using pliocene future climatic data
13) **Farková Lucie**: Diversification patterns in shrews
14) ***Fišerová Alena**: Trouble with strangers: interspecific aggression of the great spotted woodpecker in Estonia
15) ***Franc Martin**: Ecological niches and biogeography of European mycoheterotropic plants
16) **Godbold Douglas L..:** What makes an ectomycorrhizal community, and does it matter how it is composed
17) **Godbold Douglas L..**: Ectomycorrhizal fungi can suppress growth of phytophthora
18) ***Grygarová Veronika**: The impact of a wildfire in Bohemian Switzerland National Park on spider fauna
19) ***Hanušová Valérie**: Grassland restoration using green hay transfer after suppressing invasive plants by hemiparasites
20) ***Häusler Jan**: Maximising understorey diversity through the synergistic effects of canopy opening and litter removal
21) **Helclová Michaela**: Overgrowth of open steppes in central Europe: a case study on jewel beetle *Cylindromorphus bohemicus*
22) ***Homoláč David:** Spatio-temporal activity of african ungulates at water sources in a small reserve in South Africa
23) **Hubatka Petr**: Flora and vegetation of wetlands on arable land in southern Moravia
24) **Forzia Ibrahim**: Floristic composition, diversity, and conservation status of tropical forests in Ghana
25) **Jančúchová Lásková Jitka**: Trade-off between getting prey and being prey in spiders
26) ***Jirků Daria:** Analyzing large-scale grassland management outputs: field-based versus remote sensing approach
27) ***Jor Tomáš:** Unmown strips: an easy way to enhance arthropod communities in production grasslands
28) ***Kadyan Sonia:** Exploring diversification rates in clonal and non-clonal plants
29) ***Kollross Jan:** Impact of predator exclusion and nutrient enrichment on arthropods and herbivory damage
30) **Khum Akphichnny**: Restoration of coppicing: impact on spiders and plants in protected oakwoods
31) **Kolaříková Zuzana**: Relating fundamental to realized niches of arbuscular fungi along a temperature gradient
32) **Koubek Tomáš**: Clonality as a determinant of species diversity across gradients
33) ***Kovářová Eliška**: Spatial activity of foraging common rooks (*Corvus frugilegus*) in a city environment
34) ***Král Přemysl**: How microtopography and water level fluctuations affect diversity and dominance of wetland plants?
35) ***Kwak Minkyung**: Relationship between song individuality and space in yellowhammers
36) **Lanta Vojtěch:** Fire impacts on soil are context-dependent but deterministic for bryophyte and plant assemblages during postfire succession
37) ***Mahmoudi Chonour**: Plant clonality along the gradient of aridity: Lamiaceae in Iranian plateau
38) ***Marascalchi Matheus Nicoletti:** Arbuscular mycorrhizal fungi mycelial traits and their ecological implications
39) **Marro Nicolás**: Interactive effects of rhizospheric signalling and am fungi composition on mycorrhizal establishment
40) ***Moktan Laxmi**: Soil carbon stocks in primary (unmanaged) and managed forests in central and eastern Europe
41) ***Moro Gioele**: Metabarcoding of soil arthropod communities in fire-affected forests: two case studies
42) **Mottl Ondřej**: Vegvault: linking global vegetation data, functional traits, and climate across extensive temporal scales
43) ***Munir Hajra**: Getting to the point: antler growth cycle in the visayan spotted deer *Rusa alfredi*
44) ***Nageen Yumma:** Consequences of local adaptation among orchids, soil, and mycorrhizal fungi for species conservation
45) ***Neumann Szilvia Márta**: Towards a more reliable way of measuring root decomposability
46) **Otgonsuren Burenjargal**: Excellentia–center for climate–diversity–pathogen interactions in central european forests
47) **Pandit Aditi:** Unveiling the diversity and specificity of orchid mycorrhizal fungi associations: insights from geographic regions and methodological comparisons
48) ***Pokorný Daniel:** The effect of environmental fluctuations on biodiversity patterns
49) ***Polák Vojtěch**: Comparison of r libraries for population size estimation: Insights and recommendations

List of posters (**Student contributions*)

50) ***Pustková Štěpánka:** Restored wetlands in southern Moravia: current practice from the perspective of flora and vegetation
51) **Reif Jiří**: Understanding drivers of farmland bird population declines in Central and eastern european countries
52) ***Ridder Grace**: How does the movement of species between tropical and temperate zones alter macroecological patterns?
53) **Schlaghamerský Jiří**: Microannelids along a 4000 m Afrotropical elevational gradient on Mount Cameroon
54) **Schönauer Marian**: Sprucing up forest yield predictions: spatiotemporal modeling of tree ring data
55) ***Sekar Mani:** Effect of grassland management on clonal traits and rhizome biomass
56) **Šizling Arnošt L.:** Small n data analysis for episodic trends in diversity
57) **Stojanova Bojana**: The resurrection method reveals contemporary evolution of floral traits in arable weeds
58) **Střelcová-Svobodová Kateřina**: Habitats and performance of *Calla palustris* in the field and under experimental conditions
59) ***Švancárová Tereza:** Scaling from species level to community processes through key carbon fluxes in grasslands
60) ***Švestková Veronika:** Monitoring of northern lapwing breeding grounds in Czechia: results of a citizen science project
61) **Těšitelová Tamara**: Plant invasions in lowland wetlands: can hemiparasites lend a 'hand'?
62) **Valerio Mercedes:** Effect of fertilization, climate and competition on dynamics of annuals in a Mediterranean grassland
63) **Veselý Petr:** Spatial activity of foraging common rooks (*Corvus frugilegus*) in a city environment
64) **Vlasatá Tereza**: Lifeplan project generates well-standardized global biodiversity data
65) **Žárský Jakub**: Greenland ice sheet as a model for microbial macroecology

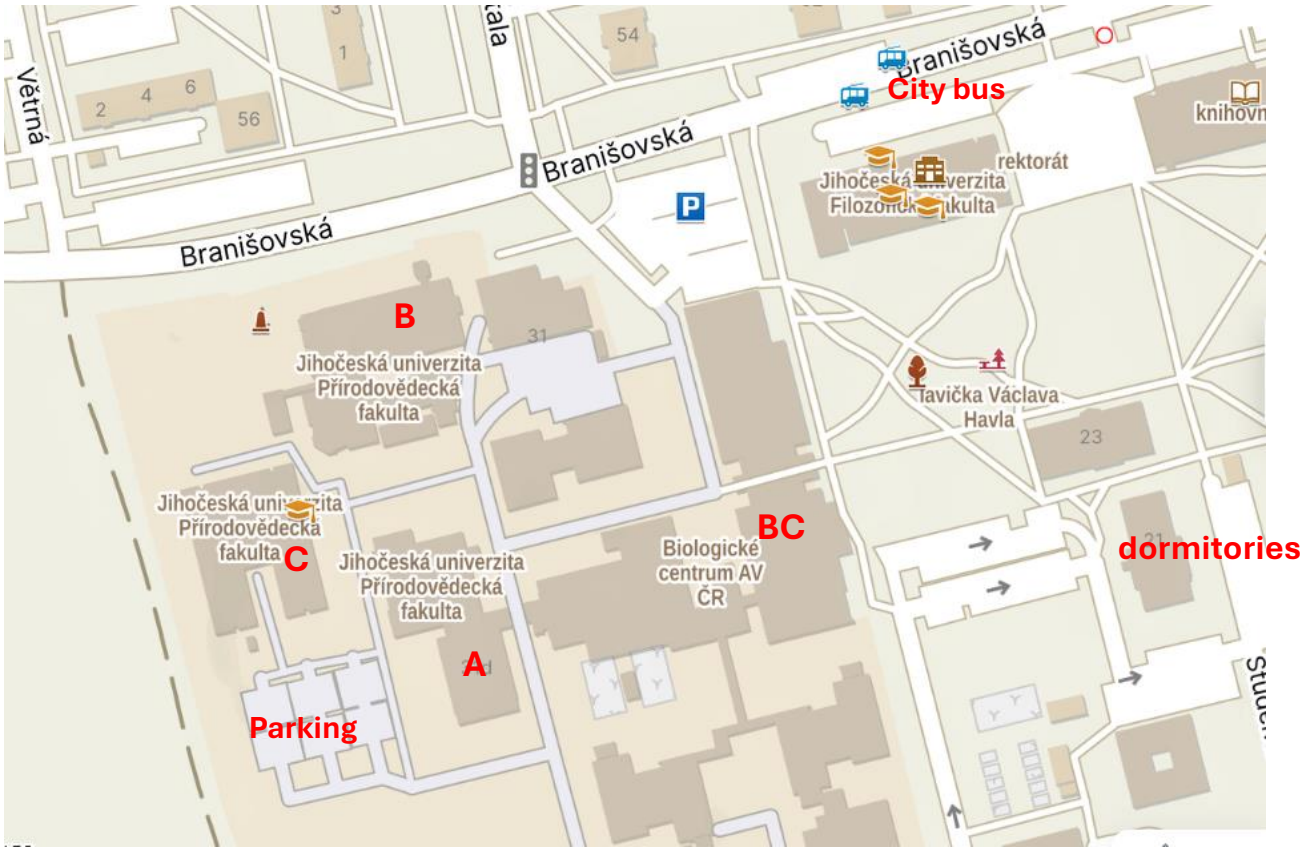
Important information

Eduroam or wifi

Lunches paid separately at registration

Building of Biology Centre, dinning room or outside restaurants

Coffee breaks will be served in foyer of building C at FSci USB



Social evening in Solnice (11.9.2024 since 20:00 to 22:00)

GPS: 48.9762400N, 14.4725214E

Hroznová 187/34
České Budějovice 37005

www.pivovarsolnice.cz

By trolley **3** from station Jihočeská univerzita to station U Zelené Ratolesti, then 6 minutes by foot

Banquet with live music (12.9.2024 since 20:00)

Dinning room and foyer of Biology Centre building (denoted as BC on the map)