

Programme

* identifies a student presentation

Sunday, August 23

16:00	Registration in the foyer of the venue
19:00	Welcome mixer in the foyer of the venue. Light meal and drinks will be provided.
23:00	Go to bed and sleep well!

Monday, August 24

8:00	Registration in the foyer of the venue
9:00	Opening ceremony <i>Stano Pekár</i> – Organiser <i>Jan Buchar</i> – Honorary member <i>Vlastimil Růžička</i> – Organiser of the previous congress in 1994 <i>Petr Dvořák</i> – Vice-rector for research of Masaryk University

Plenary lecture – Wim Damen

9:30	The spider <i>Parasteatoda tepidariorum</i> as an emerging model organism in studying developmental genetics and evolution <i>He is a professor with the Faculty of Biology and Pharmacy, Jena University, in Germany. He studies the genetic basis of evolution and biodiversity using the common house spider <i>Parasteatoda tepidariorum</i>. With his group he focuses on questions central to the evolution of segmentation, as well as the role of Hox-genes and the Wnt-signalling pathway in the development of the spider.</i>
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Session – Morphology

	Chair: Christian Kropf
10:15	These legs were made for walking ... - Evolutionary morphology of the walking appendages in arachnids (Chelicerata; Arthropoda) <i>Jens Runge*</i>
10:30	Chemical communication in spiders - SEM and electrophysiological analysis of chemosensory sensilla on <i>Argiope bruennichi</i> (Araneae, Araneidae) <i>Anne-Sarah Ganske*</i>
10:45	Conserved tarsal sensilla in Opiliones: contribution for systematics and sensory biology <i>Guilherme Gainett*</i>
11:00	<i>Coffee break</i>

Session – Genetics

Chair: Wim Damen

11:30	Evolution of sex chromosomes in spiders <i>Jiří Král</i>
11:45	Cytogenetics is not dead! What kind of important information could bring us cytogenetic data in the century of progressive molecular studies? <i>Jana Plišková*</i>
12:00	Karyotype evolution of scorpions from the family Buthidae (Arachnida: Scorpiones) <i>František Štáhlavský</i>
12:15	Karyotype evolution of harvestmen (Arachnida, Opiliones) <i>Hana Svojanovská*</i>
12:30	Karyotype evolution of the pseudoscorpion genus <i>Chthonius</i> (Arachnida: Pseudoscorpiones) in the Alps inferred from molecular data <i>Jana Kotrbová*</i>
12:45	GBOL offers a comprehensive perspective on spider mitochondrial diversity in Germany <i>Christoph Muster</i>
13:00	Lunch

Session – Taxonomy

Chair: Paula Cushing

14:30	Ancient spiders and Salt lakes <i>Paul A. Selden</i>
14:45	Two species or just one? DNA barcoding fails in <i>Enoplognatha</i> spp. <i>Liana Lasut*</i>
15:00	Taxonomic study of <i>Oedothorax</i> , a hopeful dwarf spider genus for investigating the evolution of sexual dimorphic male head structures <i>Shou-Wang Lin*</i>
15:15	Haplogyne spiders: a valid taxonomic group or a morphological term? <i>Yuri Marusik</i>
15:30	Keeping up the morphology approach: remarkable new characters for the systematics of the Zodariidae (Araneae) <i>Rudy Jocqué</i>
15:45	Coffee break

Session – Phylogeny

Chair: Christoph Muster

16:15	Not as far as it seems: phylogeographic patterns of phoretic pseudoscorpions from the family Chernetidae (Chernetidae, Pseudoscorpiones) <i>Věra Opatová</i>
16:30	Cinderella and the Sleeping Beauty: phylogenetic placement of the subfamily Sulsulinae (Oonopidae) <i>Tamás Szűts</i>
16:45	Elucidating cryptic species in the southern unstriped scorpion, <i>Vaejovis carolinianus</i> (Scorpiones: Vaejovidae) <i>Paula E. Cushing</i>
17:00	Independent evolution of genital and sexual size dimorphism <i>Ren-Chung Cheng*</i>
17:30	Congress photo

Opening party

19:00	Opening party in Mendel Museum, monastery and the adjacent garden.
24:00	Try to go to bed!

Tuesday, August 25

Plenary lecture – William O.C. Symondson

9:30	Molecular analysis of prey choice by spiders <i>He is a professor at Cardiff School of Biosciences, Cardiff University, in the UK. His research focuses on predator-prey interactions and trophic relationships. His work reveals how non-pest prey can affect spiders feeding on pests, predation by spiders on pests, intraguild predation, and the first use of next generation sequencing to analyse the complete dietary ranges of specialist and generalist species of spiders.</i>
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Session – Predator-prey interactions

Chair: William O.C. Symondson

9:45	Discovery of a monophagous true predator, a specialist termite-eating spider (Araneae: Ammoxenidae) <i>Lenka Petráková</i>
10:00	Is prey-capture efficiency innate or gained by experience in a specialised spider? <i>Eva Líznarová*</i>
10:15	Does spider presence influence feeding behaviour and virus transmission of leafhoppers? <i>Orsolya Beleznai*</i>
10:30	Cues used in prey classification by a euryphagous jumping spider <i>Maciej Bartos</i>
10:45	Effect of prey density and insecticides (lambda-cyhalothrin and profenofos) on the functional response of <i>Guizygiella melanocrania</i> (Araneae: Tetragnathidae) <i>Muhammad Khalid Mukhtar</i>
11:00	Coffee break

Session – Ecology

Chair: Wolfgang Nentwig

11:30	Spider perception of aposematism and mimicry <i>Jan Raška*</i>
11:45	The role of ultraviolet colour in Batesian mimicry: a case study using myrmecomorphic spiders <i>Guadalupe Corcobado</i>
12:00	First oligophagy in the true spider parasitoids (Ichneumonidae, Ephialtini, Polysphincta group) and the plasticity in host utilisation <i>Stanislav Korenko</i>

12:15	Effect of canopy openness on distribution of epigeal spider communities in former coppiced oak forest stands with implications on forest management <i>Ondřej Košulič</i>
12:30	Biodiversity of epigeic spider communities in different managed non-forest habitats in the Eastern Carpathians <i>Pavel Žila*</i>
12:45	Spider assemblages of mountainous mires and adjacent habitats <i>Konrad Wiśniewski*</i>
13:00	Lunch

Session – Physiology

Chair: Yael Lubin

14:30	Do the proportions of the spinning duct influence the material properties of major ampullate fibres? <i>Milan Řezáč</i>
14:45	Glue-coated capture threads of spiders are optimised for a certain humidity and pulling-rate <i>Matjaž Gregorič</i>
15:00	Antimicrobial defence of <i>L. geometricus</i> eggs <i>Vardit Makover*</i>
15:15	Investigating temporal patterns of neurohormonal levels associated with aggression and wariness in orb-weaving spiders <i>Rebecca J. Wilson*</i>
15:30	Bio-pesticidal potential of selected protein fractions of jumping spiders (Araneae: Salticidae) <i>Hafiz Muhammad Tahir</i>
15:45	Effect of heavy metals accumulation on the activity of detoxifying enzymes in wolf spider, <i>Pardosa oakleyi</i> <i>Abida Butt</i>
16:00	Coffee break

Poster session I

16:00

Arachnological Games with BBQ

18:00	The games will take place on the outskirts of the dormitory (given favourable weather).
23:00	You better go to bed!

Wednesday, August 26

Mid-congress excursion

8:00 We will meet in front of the venue to board buses at 8:30.
We expect to return at 17:30.

Route 1: Spider collecting trip

We will spend the whole day walking and collecting spiders in the Pavlovské vrchy Hills protected area and nearby areas. The walk will be about 6 km long. Lunch will be provided as a package. The Pavlovské vrchy Hills are located approximately 40 km south of Brno. We will go to the top of the hill, Děvín, which is a limestone hill reaching only 550 m a.s.l., but it is a dominant feature in the surrounding lowland landscape of the north-western edge of the Pannonian forest-steppe region. It is part of the Dolní Morava UNESCO Biosphere Reserve. Děvín is mostly forested with thermophilous oak, oak-hornbeam and ravine forests which have been coppiced for many centuries. The steep south-facing slopes of Děvín are covered with dry grasslands with many species of continental or submediterranean distribution which reach the western or northern limit of their distribution here. The most remarkable species of invertebrates include *Saga pedo* (grasshopper), *Parnassius mnemosyne* (butterfly), *Eresus moravicus*, etc. On the tour we will also visit ruins of the Děvičky and Dívčí hrady castles. In the afternoon we will visit Křivé jezero Nature Reserve, a water meadow between two rivers.

Route 2: Spider collection, cultural and wine tasting trip

Mikulov is located approximately 50 km south of Brno on the southern foot of the Pavlovské vrchy Hills (part of the Dolní Morava UNESCO Biosphere Reserve). In the morning we will walk up the hill, Svatý Kopeček, a protected area. It is a limestone slope with *Stipa* grasses with a baroque pilgrimage chapel (approx. 2 km walk). This site hosts several Pannonian spider species, which occur in the territory of the Czech Republic only in this place (i.e. *Phlegra cinereofasciata*, *Canariphantes nanus*). Lunch will be provided as a package. Then we will take a short walk through the historical centre of the town (former Jewish quarter, including a synagogue and cemetery). On the way back to Brno we will stop at a winery – to taste wine and learn about local wine production.

Route 3: Cultural trip to Lednice

We will explore the Lednice–Valtice Cultural Landscape, a UNESCO World Heritage Site. It is situated approx. 50 km southeast of Brno. It is probably one of the largest landscape parks in the world. It was established at the end of the eighteenth century by the local lords of the House of Liechtenstein. The area is famous for the masterful integration of various architectural structures, including Valtice and Lednice chateaux, French-style gardens and natural elements of the lowland and hilly landscape.

In the morning we will walk in the park to explore the neo-gothic chateau of Lednice and other buildings, such as the Minaret. Lunch will be provided as a package. In the afternoon, we will take a boat trip to John's Castle, a romantic castle ruin.

Russian party

19:00 Russian party at the congress venue with a DJ. Everybody attending the party is expected to bring a drink and/or meal. Czech beer and service will be provided.

24:00 Do not forget to go to bed!

Thursday, August 27

Plenary lecture – Jordi Moya Laraño

- 9:00 **Arachnids: from genes to ecosystem functioning and vice versa**
He is a researcher at the Experimental Station of Arid Zones, Almería in Spain. He is interested in the role that generalist predators play in ecosystems both from an ecological as well as an evolutionary point of view. In collaboration with computer scientists, he implemented an Individual-Based Model platform, Weaver, which aims at understanding eco-evolutionary dynamics in complex food webs across space.

Session – Ecosystem service

Chair: Jordi Moya Laraño

- 9:45 Biological control in winter: Novel evidence for the importance of generalist predators
Stano Pekár
- 10:00 The relationship between niche properties and composition of spider communities in vineyard terraces
*Radek Michalko**
- 10:15 Sink or sail: novel behavioural adaptations on water in aerially dispersing species
Sara L. Goodacre
- 10:30 Spider communities in managed steppe ecosystems: how to survive burning, mowing, grazing or 'absolute non-disturbance'?
Nina Polchaninova
- 10:45 *Coffee break*

Session – Conservation

Chair: Soeren Toft

- 11:15 The IUCN Spider & Scorpion Specialist Group
Pedro Cardoso
- 11:30 Importance of post-industrial sites for threatened spiders in the Czech Republic
Robert Tropek
- 11:45 *Latrodectus hasseltii* - an another unwanted Australian in New Zealand
Cor Vink
- 12:00 Epigaeic invertebrate composition and distribution patterns in two sub-tropical nature reserves, Eastern Cape, South Africa
Augustine Niba
- 12:15 Bringing forgotten predators into the picture of Himalayan Biodiversity Conservation
Shazia Quasin

- 12:30 Protocols in, data out: why do we need standardised and optimised sampling of communities?
Jagoba Malumbres-Olarte
- 12:45 *Lunch*

Session – Biogeography

Chair: Pedro Cardoso

- 14:15 Shedding light on darkness: An integrative approach to elucidate the evolutionary history of the Alpine-Apenninic troglomorphic *Pimoa* spiders
*Stefano Mammola**
- 14:30 The uplift of Himalaya as a trigger for spider species diversification: the case of the genus *Nesticella* (Araneae: Nesticidae)
*Francesco Ballarin**

Arachnid Film Showcase

- 14:45 Wolf spider: The Mother
Lukáš Pich
- Cteniza mating behavior
Rizzo Pierluigi
- Role of water in a life of a fishing spider
Petr Dolejš
- Hadzinia ferrani*, sp. n. (Opiliones: Nemastomatidae), a highly specialized troglomorphic harvestman from Slovenia
Peter Kozel
- Euryopsis episinooides* on the hunt
Stano Pekár
- 15:15 *Coffee break*

ESA General Assembly

- 15:45 ESA General Assembly
- 16:45 20th International Congress of Arachnology, Golden, Colorado USA
Paula Cushing

Poster session II

17:15

Congress dinner

- 19:00 Congress dinner at Železná růže restaurant. Meal and drinks will be provided.

Friday, August 28

Plenary lecture – Jonathan Pruitt

- 10:00 **From individuals, to populations, to communities, to extinction: when does animal personality matter?**
He is an Associate Professor in the Department of Biological Sciences, University of Pittsburgh, Pittsburgh, U.S.A. His research explores the evolutionary origins and ecological consequences of individual variation. In particular, he explores how temporally consistent individual differences in behaviour influence the roles that individuals play within societies.
- 10:45 *Coffee break*

Session – Sexual selection

Chair: Gabriele Uhl

- 11:15 The sex pheromone of the cross spider *Araneus diadematus*
*Andreas Fischer**
- 11:30 Flexible use of complex copulatory organs in a dwarf spider
Katrin Kunz
- 11:45 Efficacy of mate plugging is a result of an interplay between male and female behaviour in *Philodromus cespitum* (Philodromidae)
*Lenka Sentenská**
- 12:00 What happens beneath the blanket? Insight into courtship and copulatory behaviour of wolf spiders of the genus *Alopecosa* (Araneae: Lycosidae)
*Pavel Just**
- 12:15 Optimal mating in *Pisaura mirabilis* females
Søren Toft
- 12:30 Intersexual genital complexity and coevolving mating rates
Matjaž Kuntner
- 12:45 Reproductive role shapes task differentiation in a social spider
*Anja Junghanns**
- 13:00 *Lunch*

Session – Behavioural Ecology

Chair: Matjaz Kuntner

- 14:30 Neuroplasticity in a jumping spider
*Philip O. M. Steinhoff**
- 14:45 The effect of nutrition over ontogeny on sexual cannibalism and reproductive success in raft spider
Simona Kralj-Fišer

- 15:00 Density dependent fitness and dispersal in a colonial spider,
Cyrtophora citricola
*Lior Ventura**
- 15:15 Comparison of overwinterings in two harvestman species (Arachnida: Opiliones) in subterranean habitats
*Peter Kožel**
- 15:30 Characterising and assessing the adaptiveness of diel rhythm in behaviours of two orb-weaving spiders
*Sara Normark**
- 15:45 *Coffee break*

Session – Faunistics

Chair: Christian Komposch

- 16:15 The Ausobsky-harvestman-collection – A unique window into the past
Christian Komposch
- 16:30 Present knowledge on the spider fauna of the Carpathians and Slovakia
Peter Gajdoš
- 16:45 An overview on the Croatian spider fauna
*Luka Katušić**
- 17:00 Spiders associated with alfalfa in Hamedan, Iran
Mohammad Khanjani
- 17:15 Ecological distribution of Turkish scorpions
Ersen Aydın Yağmur
- 17:30 Diversity of the cave spider fauna in Chonduea Mountain, Nakhon Sawan, Thailand
*Prasit Wongprom**
- 17:45 Vertically niched, conductor-less and sexual piercing: spiders from the Nat Ma Taung in Myanmar
Peter Jaeger

Closing ceremony

- 18:15

Saturday, August 29

Post-congress excursion

8:00

We will meet in front of the venue and board a bus.

During this three-day excursion we will explore the beauties of one of four National Parks in the Czech Republic, Podyjí (Thaya) National Park. The park is situated along the deep Dyje River valley along the border with Austria where it connects to the National Park Thayatal in Austria. It consists mainly of different light forest types on acid soils and rocks and rare continental heathlands. There are also deep scree slopes with so-called ice caves. The spider fauna of the park has not been studied adequately, yet. We will be guided by a ranger from the park office.

We will travel by bus to Znojmo where we will sightsee and tour the town. In the afternoon we will visit the famous Havranické heathland. At the end of the day we will do wine tasting and tour the old former monastery cellars of the Znovín winery.

The next day, August 30, we will visit a famous baroque chateau in Vranov nad Dyjí. Then we will take a boat trip to early medieval Bítov Castle. This castle is surrounded by oak-pine forests where we can collect spiders.

The last day, August 31, in the morning we will return to Brno by bus.