

PROGRAM



Organized by

University of Turin
Department of Life Sciences and Systems Biology

24-31 August, 2014
Torino, Italy

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Logo designed by Marco Tosi

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PREFACE

Welcome to the XXVIII European Congress of Arachnology!

After more than twenty years, we are pleased to welcome back in Italy arachnologists from all over the world. The list of participants is composed by 220 names of which 180 participants, 25 accompanying persons and 15 volunteers. Participants come from all over the world, with representatives from 41 countries and all continents.

Thanks to your efforts we are glad to present a rich and lively Scientific Program composed by 5 plenary talks, 80 oral presentations and 82 posters. The Congress focuses on all aspects of arachnological research, with 22 thematic sessions (12 for oral presentations and 10 for posters) and three special symposia.

We wish you all a fruitful and pleasant Congress, hoping that this opportunity will foster exciting new collaborations amongst arachnologists from all over the world.

Enjoy your time in Torino!

The Organizing Committee

GENERAL INFORMATION

(for further information please see the detailed program)

VENUE

Lectures will be held in the Aula Magna of the Department of Life Sciences and Systems Biology of the University of Torino. Monday's parallel sessions will be held in Aula Magna and Aula De Filippi. Posters will be presented in the first floor Hall (Map 1). Coffee breaks and lunches will be served in the Cloister, just opposite the Aula Magna (in case of bad weather we will use the first floor hall). Map 1 for details.

ORAL PRESENTATIONS

In order to allow most participants to give a talk during the congress sessions, each speaker will have 15 minutes available (including discussion). When planning your talk, please make sure you can stay within this time to ensure the smooth running of the sessions. The conference room is equipped with a projector and a computer that runs MS Office Power Point for Windows. Please bring your presentations on a USB memory stick, using your last name as your file name. Please hand in your presentation to our staff at the registration desk at least the day before your talk in order for us to test it. An Apple computer will also be provided should you need one.

POSTERS

You will be able to hand in your poster upon registration. Our staff will fix the posters on the grids. There will be two allocated poster sessions on Tuesday 26th and Thursday 28th August. Authors are expected to be available by their poster during poster sessions.

MEALS

Lunches are offered to the Congress participants on Monday, Tuesday, Thursday and Friday. Please remember to bring your lunch ticket every day. Lunch will also be provided during the Excursions for all participants and accompanying persons.

The Sunday Welcome Party and Monday's *aperitivo* are included in the fee upon presentation of the corresponding ticket. Food and drink contributions from your home country are welcomed for Thursday's Russian Party. Tuesday and Wednesday's dinner are free. The Social Dinner will be served on Friday at the Esperia Rowing Club. Please bring your ticket for the dinner.

STUDENT AWARDS

Prizes are offered by the European Society of Arachnology (550 EUR), the Arachnologische Gesellschaft (300 EUR), the British Arachnological Society (2 one-year memberships), SIRI Scientific Press (1 book token) and Società Entomologica Italiana (books). Winners will be proclaimed during the Closing Ceremony on Friday 29th.

INTERNET FACILITIES

The Wi-Fi network of the University of Torino is available in the Congress Venue. An internet account will be created for all participants and the password will be handed out upon registration.

INFORMATION REGARDING SPECIMEN COLLECTING

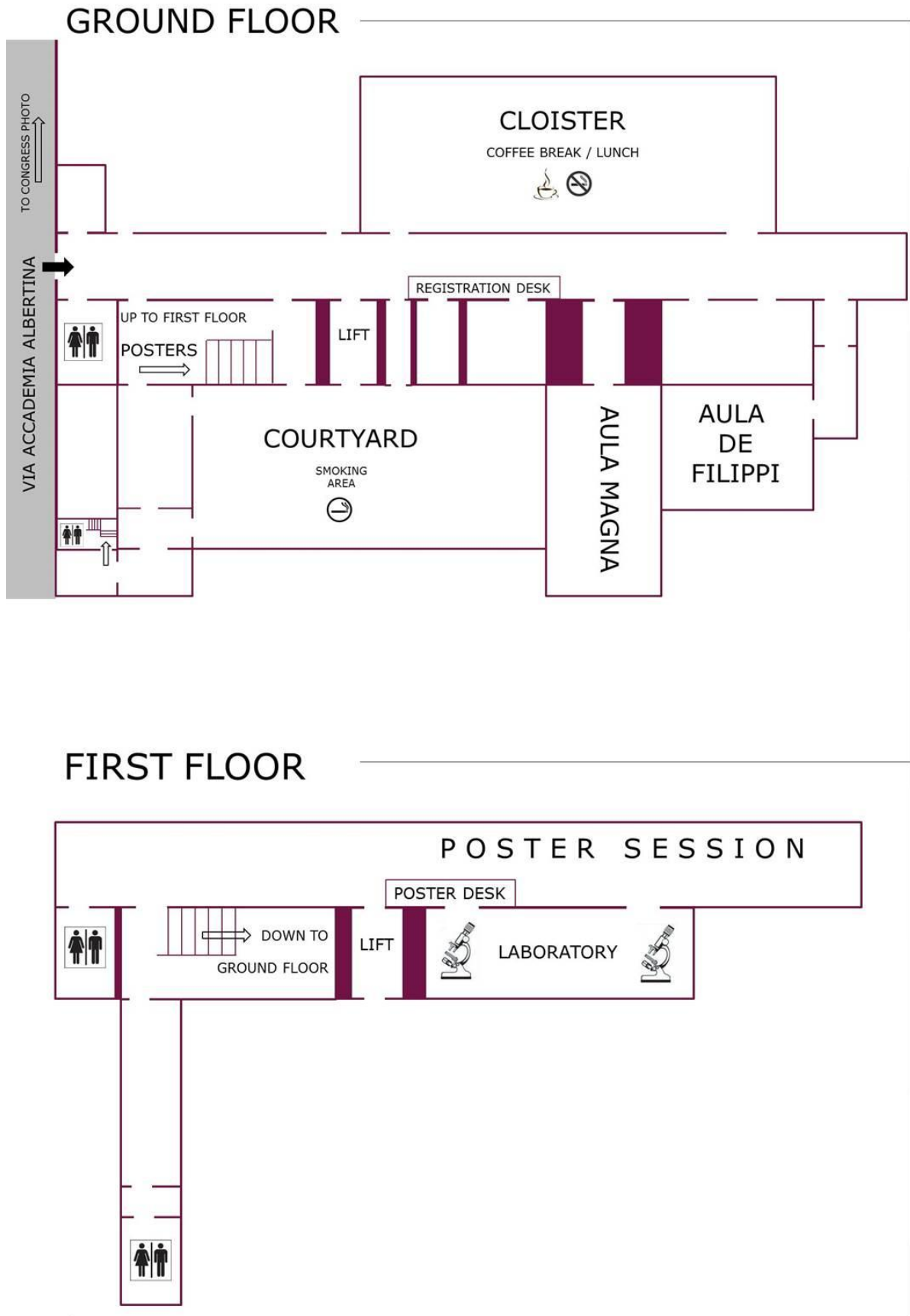
All Excursions are set within or nearby Nature Reserves. Please note that Alpine habitats are fragile. When collecting, attempts should be made to avoid disturbing the habitat, e.g., rocks and removed soil should be returned to the original position and plants should not be damaged. Note also that removal of any annual flowers and geophytes in Nature Reserves is forbidden by law.

In Italy, permits are required in order to collect specimens in Nature Reserves. The Congress organizers and the Regional Park Authorities share a common interest in increasing our knowledge of the local arachnid fauna and thus, we recognize the importance of collecting, identifying and documenting this fauna. To this end, we have requested the appropriate permits from the authorities for Congress participants who wish to collect inside Nature Reserves.

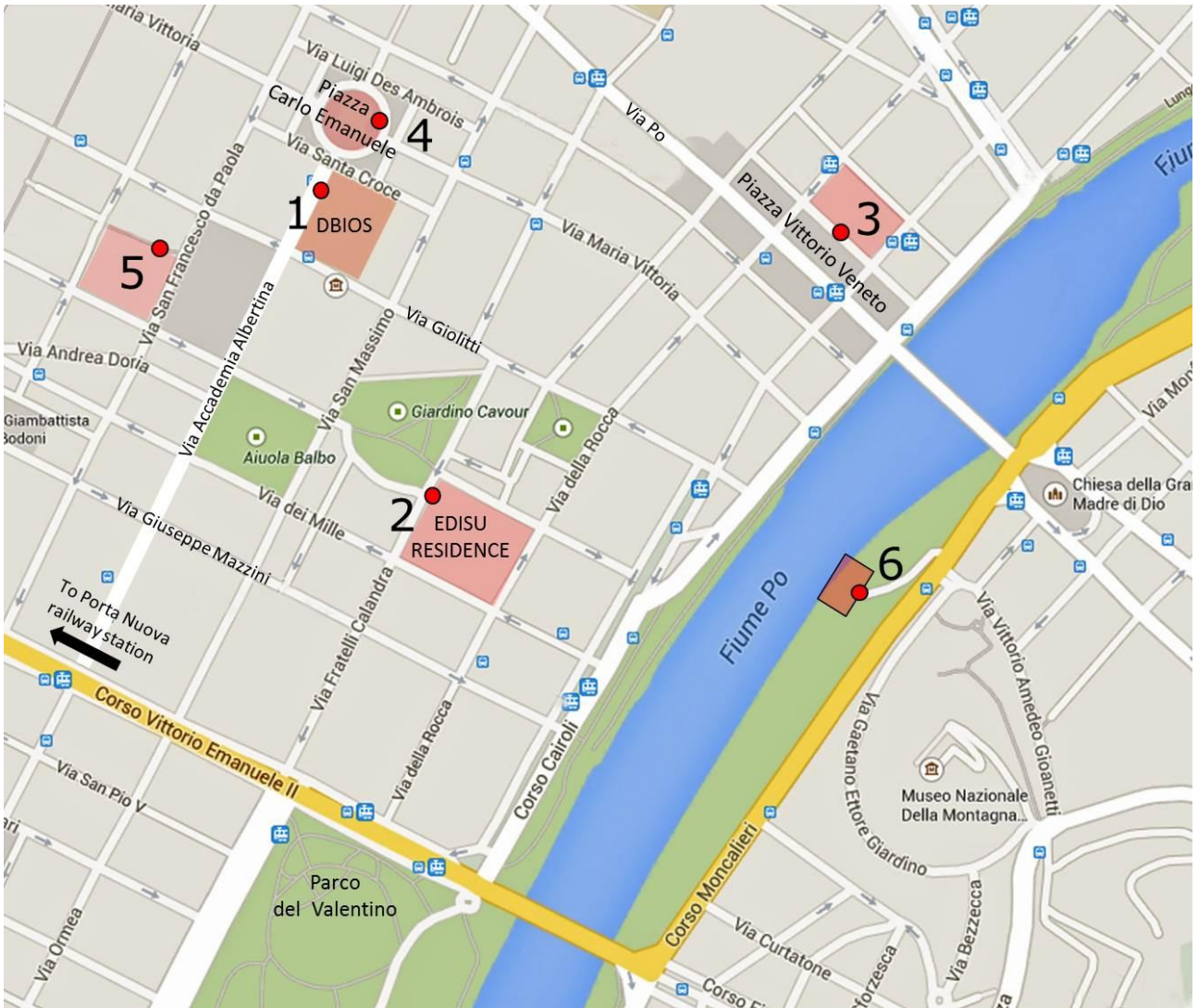
The permit is subject to the following requirements:

1. If you intend to collect during the Congress excursions, please fill in your name and information in the form available at the Registration Desk.
2. The collecting permit is valid for Nature Reserves visited during the Congress excursions on Wednesday 27th August (Parco Regionale La Mandria, Parco Naturale Alpi Marittime and Oasi WWF Forteto della Luja). Collection at Bossea Cave (post congress excursion) is forbidden. The collecting permit is for arachnids only. The collection of specimen of *Vesubia jugorum* (Alpi Marittime hard hike) is forbidden. Please contact the Congress Organizers for more information about this species.
3. Collecting by hand only is permitted (no traps).
4. Binoculars and other materials will be available at the main Congress venue (Laboratory, first floor).
5. Reports or publications that include material collected during the Excursions should include a statement in the Acknowledgements indicating that the "*Collections were made with permission of the Park Authority*". We would appreciate your sending a copy to the Congress Organizers.
6. If new species are described, holotypes should be preferably deposited at the Museo Civico di Scienze Naturali "E. Caffi" of Bergamo, partner and sponsor of the Congress.

On behalf of the Organizing Committee, we hope that you have productive collecting and we look forward to seeing the results of your efforts.



Map 1 – Main Congress Venue



Map 2 – Venues of the main congress events. 1. Main Congress Venue (DBIOS); 2. EDISU Residence “Cavour”; 3. LAB Club; 4. Piazza Carlo Emanuele; 5. Victoria Hotel; 6. Esperia Rowing Club.

PROGRAM OVERVIEW

	Sun 24	Mon 25	Tue 26	Wed 27
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ONWARDS				

PROGRAM OVERVIEW

	Thu 28	Fri 29	Sat 30	Sun 31
08:00				
08:15				
08:30	Registration			
08:45				
09:00				
09:15	Plenary Christian E.	Registration		
09:30				
09:45				
10:00				
10:15	Session V SYSTEMATICS AND FAUNISTICS Chair: Cushing P. E.			
10:30	Decae A. E.			
10:45	Vink C. J.			
	Spasojevic T.			
	Benjamin S. P.			
11:00				
11:15	Coffee Break	Coffee Break		
11:30				
11:45	Session VI BIOGEOGRAPHY Chair: Kropf C.	Symposium II MATING STRATEGIES Chair: Tuni C.		
12:00	Isaia M.	Tuni C.		
12:15	Yağmur E. A.	Schneider J. M.		
12:30	Chatzaki M.	Uhl G.		
12:45	Aharon S.	Kunz K.		
	Beccaloni J.	Foellmer M. W.		
	Fet V.	Michalik P.		
13:00		Open discussion		
13:15				
13:30	Lunch	Lunch		
13:45				
14:00				
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14:30				
14:45	Plenary Hormiga G.			
15:00		Symposium III GENOMICS Chair: Bilde T.		
15:15		Bilde T.	POST-CONGRESS EXCURSION Special Session CAVELAB Chair: Isaia M.	
15:30	Session VII PHYLOGENY Chair: Arnedo M. A.			
15:45	Scharff N.	Vanthournout B.		
16:00	Bond J. E.	Bechsgaard J.		
16:15	Valdez-Mondragón A.	Settepani V.		
16:30	Cushing P. E.	Hamilton C. A.		
16:45		Garrison N. L.		
17:00		Open discussion		
17:15	Session VIII PHYLOGEOGRAPHY Chair: Bond J. E.			
17:30	Arnedo M. A.			
17:45	Opatova V.			
18:00	Armiaich I.			
18:15	Sousa P.			
18:30				
18:45	Poster Session II			
19:00				
19:15				
19:30				
19:45	Russian Party			
20:00				
ONWARDS		Social Dinner		

POST-CONGRESS EXCURSION

Sunday, 24th August, 2014

17:00 Registration Desk open

The Registration Desk is located in the main Congress venue. Please enter the main hall and proceed to the Desk to complete your registration and collect your materials. There will be a computer available every day to upload your presentation. We suggest giving in your presentation at least the day before your talk. Posters drop-off will be on the first floor (poster desk).

19:00 Welcome Party

The Welcome Party will be held in the main Congress venue hall. Nibbles and drinks will be provided to all participants, including accompanying persons.

Monday, 25th August, 2014

8:00 **Registration Desk open**

9:15 **Opening Ceremony**

Official salutations:

Dr. Marco Isaia – Congress Organizer

Prof. Paola Bonfante – Department of Life Sciences and Systems Biology

Prof. Paolo Tongiorgi – Honorary member of the ECA2014 Scientific Committee

10:00 **PLENARY SESSION - Prof. Martin Entling**

Trophic interactions of spiders: from individuals to ecosystems

Martin Entling is the Head of the Ecosystem Analysis Lab at University of Koblenz-Landau. He is interested in how spiders are influenced by human land use and by the composition and configuration of habitat types in the landscape. In addition, he studies the role of spiders in food webs both as predators of various insects and as prey, e.g. for ants, wasps and birds. Recently, he became fascinated by trait-mediated interactions, such as avoidance behaviour between insects and spiders based on chemical cues.

11:00 **Coffee Break** (Cloister)

SESSION I – ECOLOGY

Chair: Sara Goodacre

11:30 **Trait-mediated indirect effects of spiders on plants**

R. Bucher

11:45 **Implications of behavioral traits of an intra-guild predator for biological control**

R. Michalko

12:00 **Climatic segregation and intra-cave ecology of *Meta menardi* and *M. bourneti* (Araneae, Tetragnathidae)**

S. Mammola

12:15 **Prey capture in wolf spider (Araneae, Lycosidae) related taxa**

B. Eggs

12:30 **Cost of fear: effect of spider presence on leafhopper feeding behaviour**

F. Samu

12:45 **Assessing the conservation status of the endemic Desertas wolf spider, *Hogna ingens* (Araneae, Lycosidae)**

L. C. Crespo

13:00 **Lunch** (Cloister) – Please bring your lunch ticket

PARALLEL SESSION I: BEHAVIOURAL ECOLOGY I

Chair: Gabriele Uhl

Location: Aula Magna

- 14:30 **Comparative analysis of passive defences in spiders (Arachnida, Araneae)**
S. Pekár
- 14:45 **Trait-mediated effects and intra-guild interactions: how do ant cues influence spider behaviour?**
L. Mestre
- 15:00 **Revealing the selection forces behind the evolution of inaccurate Batesian mimicry in myrmecomorphic spiders**
G. Corcobado
- 15:15 **Reactions of jumping spiders towards aposematic prey (Araneae, Salticidae)**
J. Raška
- 15:30 **Effects of rearing conditions on development of learning abilities in the jumping spider *Marpissa muscosa* (Araneae, Salticidae)**
J. Liedtke
- 15:45 **Web architecture alteration of the orb-weaver *Tetragnatha montana* (Araneae, Tetragnathidae) induced by a polysphinctine parasitoid (Ichneumonidae, Polysphinctini)**
S. Korenko

PARALLEL SESSION II: COMMUNITY ECOLOGY I

Chair: Ferenc Samu

Location: Aula De Filippi

- 14:30 **Analysis and remarks on the phenology of forest spiders in Hesse, Central Germany (Arachnida, Araneae)**
T. Blick
- 14:45 **The harvestmen fauna (Arachnida, Opiliones) in the core area and managed forests in the Wienerwald biosphere reserve (Austria)**
C. Komposch
- 15:00 **Can BAF index reflect biodiversity of landscape mosaics in coastal areas? A case study using spiders as indicators**
P. – S. Huang
- 15:15 **Vineyard terraces as a refuge for rare and endangered spiders in a modern agriculture landscape**
O. Košulič
- 15:30 **Activity density response of ground-dwelling spider communities to habitat manipulation in agroecosystems**
G. Ambrus
- 16:00 **Coffee Break** (Cloister)

PARALLEL SESSION III: BEHAVIOURAL ECOLOGY II

Chair: Stano Pekár

Location: Aula Magna

- 16:30 **Prey-luring and female-courting functions of conspicuous clypeus of the brown huntsman spider *Heteropoda venatoria* (Araneae, Heteropodidae)**
I-M. Tso
- 16:45 **Foraging benefits of visual specialization in the strictly nocturnal, ogre-faced spider, *Deinopis spinosa* (Araneae, Deinopidae)**
J. A. Stafstrom
- 17:00 **Indication of postmating isolation between two sibling species of spiders**
L. Sentenská
- 17:15 **DNA barcoding reveals migration patterns along Swiss river systems**
L. Lasut

PARALLEL SESSION IV: COMMUNITY ECOLOGY II

Chair: Theo Blick

Location: Aula De Filippi

- 16:30 **Long-term monitoring of spiders in coastal dune and salt marsh habitats along the river Yzer estuary (Nieuwpoort, Belgium), final approach**
L. Baert
- 16:45 **Compositional change in a Mediterranean ground spider community over the seasons**
M. Elverici
- 17:00 **Diversity of spider assemblages on the mountainous mires in Sudety mountains**
K. Wiśniewski
- 17:15 **Spider diversity in high altitude landscape: Askot Wildlife Sanctuary, Uttarakhand, India**
V. P. Uniyal
- 17:30 **Congress photo**
We will walk to the nearby Piazza Carlo Emanuele to take the official Congress photo (#4 on Map 2)
- 19:00 **Spider Jazz Trio concert and aperitivo** – Please bring your Jazz@Lab ticket
We will walk to the nearby LAB Club in Piazza Vittorio (#3 on Map 2) to experience one of Torino's most typical traditions, the *aperitivo* (cocktails and buffet). The evening will be accompanied by live music from the Spider Jazz Trio. Please bring the corresponding ticket to take part in this event. The ticket includes one drink of your choice and access to the buffet.

Tuesday, 26th August, 2014

8:00 **Registration Desk open**

9:00 **PLENARY SESSION - Prof. Lucia Kuhn-Nentwig**
Much more complexity than necessary: the venom of a spider

Prof. Lucia Kuhn-Nentwig is a senior scientist at the Institute of Ecology and Evolution, University of Bern (Switzerland) since 1990. She studied biology with the focus on pharmacology and biochemistry and completed her PhD on the cytochrome c oxidase at the Chemistry Department of the University of Marburg (Germany) in 1985. Her research focuses mainly on the identification of venom compounds and their interactions as well as the immune system of the spider *Cupiennius salei*.

SESSION II: PHYSIOLOGY

Chair: Lucia Kuhn-Nentwig

10:00 **Spider venom hyaluronidases and their substrates**

A. Moser

10:15 **Differential nutrient extraction explains material investment but not architectural or property flexibility of a predatory trap**

S. J. Blamires

10:30 **Optimizing material plasticity across ontogeny: does orb-web spiders' silk tailoring potential change with increases in body size?**

D. Piorkowski

10:45 **The structure and function of the silken attachment discs of spiders**

J. O. Wolff (on behalf of I. Grawe)

11:00 **Coffee Break** (Cloister)

SESSION III: FUNCTIONAL MORPHOLOGY

Chair: Barbara Knoflach-Thaler

11:30 **Spider genital asymmetry - Is it really that rare?**

B. A. Huber

11:45 **Copulatory organs in spiders: can their parts be homologized?**

Y. M. Marusik

12:00 **Functional morphology of the genitalia of Laniatorean harvestmen (Gonyleptidae, Opiliones)**

R. M. Werneck

12:15 **Unique harvestmen (Arachnida, Opiliones) use viscoelastic fluids to capture springtails**

J. O. Wolff

12:30 **3D functional morphology of the femur-patella joint in the spider *Cupiennius salei* (Araneae, Ctenidae)**

J. Runge

12:45 **The covering setae of ground spiders (Araneae, Gnaphosidae)**

B. P. Zakharov

13:00 **Lunch** (Cloister) – Please bring your lunch ticket

SYMPOSIUM I: INVASIVE SPECIES

Chair: Yael Lubin

- 14:30 **Invasive spiders in Europe?**
W. Nentwig
- 14:45 **Habitat preference and distribution of endemic and invasive spiders and other invertebrates on sub-Antartic South Georgia**
S. Goodacre
- 15:00 **The spider *Zoropsis spinimana* (Araneae, Zoropsidae) north of the Alps – natural spread after hitchhike?**
A. Bolzern
- 15:15 **Dispersal of a colonial spider undergoing range expansion**
Y. Lubin
- 15:30 **Adaptive introgression enabled the northern range expansion of European wasp spiders *Argiope bruennichi* (Araneae, Araneidae)**
H. Krehenwinkel
- 15:45 **Open discussion**
- 16:00 **Coffee Break** (Cloister)

SESSION IV: SOCIAL SPIDERS

Chair: Jutta M. Schneider

- 16:30 **How to trigger your motherly instinct? Investigating the evolution of social behaviour during maternal care from a physiological and behavioural point of view**
C. Holm
- 16:45 **Histological examinations of the mechanisms and dynamics of maternal care in the subsocial spider *Stegodyphus lineatus* (Araneae, Eresiidae)**
A. Junghanns
- 17:00 **The effect of individual relatedness on colony performance in group-living *Cyrtophora citricola* (Araneae, Araneidae)**
E. Líznavá
- 17:15 **Multiple origins of social behaviour in crab spiders (Araneae, Thomisidae)**
J. Ruch

17:30 POSTER SESSION I

Location: First floor (Map 1)

19:00 Guided tour of Torino city centre

Please meet at the main hall to walk to the nearby Piazza Carlo Emanuele (#4 on Map 2), from where we will start our walking guided tour of Torino city centre. This tour is kindly offered by the town hall of Torino. The rest of the evening will be free for you to explore the many bars and restaurants Torino has to offer. For suggestions, ask at the Registration Desk or have a look at the following link:
<http://www.likealocalguide.com/turin/bars>

Wednesday, 27th August, 2014

Mid-Congress Excursions

7:30 – 20:00 **Excursion 1a**

Alpi Marittime Natural Park, Piano del Valasco (Easy Hike)

Departure will be at 7:30 from Piazza Carlo Emanuele (#4 on Map 2). We will reach the Park at around 10:00 and will start our easy, 2-hour hike towards Piano del Valasco. A small snack and a drink will be provided before departure. Lunch will be served at the Royal Hunting Lodge at 13:00. The rest of the time will be free to collect, walk or rest.

Departure from the Royal Hunting Lodge back to the bus will be at 16:00. Arrival in Torino will be at around 20:00.

6:30 – 21:00 **Excursion 1b**

Alpi Marittime Natural Park, Rifugio Questa (Hard Hike)

Departure will be at 6:30 from Piazza Carlo Emanuele (#4 on Map 2). We will reach the Park at around 9:00 and start the hike. A small snack and a drink will be provided before departure. At around 10:30 we will stop at the Royal Hunting Lodge to collect our packed lunch and proceed towards the Rifugio Questa. At around 13:00 we will have lunch and free time to collect.

Departure from Rifugio Questa will be at 15:30. We will be back at the bus at around 19:00, and arrive in Torino at around 21:00.

This is a brisk, demanding hike of about 4 hours and 1000 m ascent that requires suitable preparation and clothing. It is not advisable to non-experienced hikers.

8:00 – 21:00 **Excursion 2**

Langhe Region – Wine tasting and easy walk

Departure will be at 8:00 from Piazza Carlo Emanuele (#4 on Map 2). At around 10:00 we will reach the WWF Natural Reserve Forteto della Luja for a walking tour, collection, and a wine tasting session. We will then take the bus to the restaurant in the heart of the wine region. Lunch will be served at 13:00. After lunch we will take the bus to Barolo to visit the wine producer Terredavino, one of the Congress sponsors. You will then have free time to explore the beautiful historical town of Barolo.

Departure from Barolo will be at 19:00. We will arrive in Torino at around 21:00.

8:30 – 19:30 **Excursion 3**

Venaria Royal Residence and La Mandria Natural Park

Departure will be at 8:30 from Piazza Carlo Emanuele (#4 on Map 2).

We will walk towards the main train station to board the bus to the Royal Residence. A guided tour of the Royal Residence will be offered, followed by lunch at the Royal gardens.

After lunch we will visit La Mandria Natural Park, where you will be able to choose between one of these three options (no additional charge is requested for these options).

1. Bike rental and independent tour of the Park.
2. Guided walk with a ranger to the Park wetlands. This area is only accessible for scientific purposes.
3. Visit to the Royal apartments.

Collection is possible in all areas of the Park. Please meet at the Park entrance (Ponte Verde) at 18:30 for departure. We will arrive in Torino at around 19:30.

Thursday, 28th August, 2014

8:00 **Registration Desk open**

9:00 **PLENARY SESSION - Prof. Erhard Christian**
Palpigradi: morphology, research history and recent advances

Prof. Erhard Christian is the former President of the Entomological Society of Austria and the Austrian Society of Entomofaunistics. He was Associate Professor at the University of Natural Resources and Life Sciences, Vienna, where he chaired the Institute of Zoology for several years. His particular interests lie in the fields of soil zoology and subterranean biodiversity research, with focus on Palpigradi and basal hexapods.

SESSION V: SYSTEMATICS

Chair: Paula E. Cushing

10:00 **Identification of Mediterranean mygalomorph spiders (Arachnida, Araneae)**

A. E. Decae

10:15 **Lucid identification key to Theridiidae spiders (Arachnida, Araneae) of biosecurity importance**

C. J. Vink

10:30 **Barcoding of European spiders: closely related species in the genus *Araniella* (Araneae, Araneidae)**

T. Spasojevic

10:45 **Revision of the Australasian crab spiders currently placed in the genera *Stephanopis* O.P. - Cambridge, 1869 and *Sidymella* Strand, 1942 (Araneae, Thomisidae)**

S. P. Benjamin

11:00 **Coffee Break** (Cloister)

SESSION VI: BIOGEOGRAPHY AND FAUNISTICS

Chair: Christian Kropf

11:30 **An overview on the Italian spider fauna based on the new national checklist**

M. Isaia

11:45 **Zoogeography of scorpions (Arachnida, Scorpiones) in Turkey**

E. A. Yağmur

12:00 **European year of spider biodiversity research 2014 – Greece**

M. Chatzaki

12:15 **This cave is mine – distribution and ecology of two troglomorphic *Artema* (Araneae, Pholcidae) species in Israel**

S. Aharon

12:30 **The Arachnida collection at the Natural History Museum (NHM), London: facilitating global scientific research**

J. Beccaloni

12:45 **The Euroscorpion revisited: not-so-cryptic diversity of *Euscorpilus* (Scorpiones, Euscorpiliidae)**

V. Fet

13:00 **Lunch** (Cloister) – Please bring your lunch ticket

14:30 **PLENARY SESSION - Prof. Gustavo Hormiga**

The unbearable lightness of being monophyletic: Reinterpreting the evolutionary chronicle of orb-weaving spiders with phylogenomic tools

Prof. Gustavo Hormiga is the Ruth Weintraub Professor of Biology at The George Washington University in Washington DC. Research in his lab focuses on spider systematics and evolution, with emphasis on orb weavers. Prof. Hormiga completed his undergraduate studies at the Universitat de Barcelona and his M.S. and doctoral work at the University of Maryland. He is a Research Associate at the Museum of Comparative Zoology of Harvard University, the California Academy of Sciences and the American Museum of Natural History.

SESSION VII: PHYLOGENY

Chair: Miquel A. Arnedo

15:30 **Molecular phylogeny of the orb weaver spider family Araneidae (Arachnida, Araneae)**

N. Scharff

15:45 **Spider phylogenomics: reevaluating the history of Earth's most diverse predator lineage and the origin of the orb web**

J. E. Bond

16:00 **Phylogeny of the spider genus *Ixchela* Huber, 2000 (Araneae, Pholcidae) based on morphological and molecular evidence (CO1 and 16S), with a hypothesized diversification in the Neogene**

A. Valdez-Mondragón

16:15 **Phylogenetic analysis of the North American camel spider family Eremobatidae (Arachnida, Solifugae)**

P. E. Cushing

16:30 **Coffee Break** (Cloister)

SESSION VIII: PHYLOGEOGRAPHY

Chair: Jason E. Bond

17:00 **The Canaries revisited: resolving the *Dysdera* spiders puzzle (Araneae, Dysderidae)**

M. A. Arnedo

17:15 **Loosening the belt: How the Hercynian Belt breakup shaped the distribution of the trap-door spider genus *Ummidia* (Araneae, Ctenizidae) in the Western Mediterranean**

V. Opatova

17:30 **Blood is thicker than salt water: *Prochora lycosiformis* and the dispersal of Miturgidae (Arachnida, Araneae)**

I. Armiach

17:45 **Improved phylogeography of the scorpion genus *Buthus* (Scorpiones, Buthidae) and novel insights regarding Maghreb diversity through a cox1 barcoding approach**

P. Sousa

18:00 **POSTER SESSION II**

Location: First floor (Map 1)

19:30 **Russian Party**

A well-established ECA tradition, the Russian party will be held in the courtyard of the EDISU Residence "Cavour" (#2 on Map 2). Food and drink contributions are welcome. DJ Toy-fel will keep the party alive. Please bring your congress badge!

Friday, 29th August, 2014

9:00 **Registration Desk open**

10:00 **PLENARY SESSION - Prof. Frederik Hendrickx**

Sex ratio and sexual selection games in a male dimorphic dwarf spider (Araneae, Linyphiidae)

Frederik Hendrickx is senior scientist at the Entomology Department of the Royal Belgian Institute of Natural Sciences, Belgium and Guest Lecturer at Ghent University, Belgium, where he teaches courses on evolution. He studies a wide variety of eco-evolutionary and ecological topics using spiders and beetles as model organisms. These include speciation, life history evolution and sexual selection. In his research, he attempts to integrate theory with genetic and experimental data and field observations.

11:00 **Coffee Break** (Cloister)

SYMPOSIUM II: MATING STRATEGIES

Chair: Cristina Tuni

11:30 **Post-copulatory sexual selection research on spiders**

C. Tuni

11:45 **Sequential mate choice of male and female *Argiope* (Araneae, Araneidae)**

J. M. Schneider

12:00 **Female genital mutilation: a novel male strategy to secure paternity?**

G. Uhl

12:15 **Mating plug efficacy in a dwarf spider (Linyphiidae, Erigoninae) – the role of size and age**

K. Kunz

12:30 **Male mating success and locomotive performance: how important is metabolic “power”?**

M. W. Foellmer

12:45 **Numb genitalia in male spiders: fact or fiction?**

P. Michalik

13:00 **Open discussion**

13:15 **Lunch** (Cloister) – Please bring your lunch ticket

SYMPOSIUM III: GENOMICS

Chair: Trine Bilde

- 14:45 **Evolutionary ecology in the genomics era**
T. Bilde
- 15:00 **Bacterial communities of spiders**
B. Vanthournout
- 15:15 **Genetic characterization of the immune system of the social spider *Stegodyphus mimosarum* (Araneae, Eresidae)**
J. Bechsgaard
- 15:30 **The effect of mating system on genome-wide genetic diversity: a comparative study of sister species with inbred and outbred mating systems**
V. Settepani
- 15:45 **A new age for spider phylogenomics: expanding Anchored Hybrid Enrichment to resolve both deep and shallow relationships within spiders**
C. A. Hamilton
- 16:00 **Evaluating species boundaries in the *Aptostichus atomarius* (Araneae, Euctenizidae) sibling species complex (CA): a genotyping-by-sequencing based approach**
N. L. Garrison
- 16:15 **Open discussion**
- 16:30 **Coffee Break** (Cloister)
- 17:00 **ESA General Assembly**
- 18:30 **Closing Ceremony**
- 20:00 **Social Dinner** – Please bring your dinner ticket
We will walk to the Social Dinner venue by the Po River, the Esperia rowing club (#6 on Map 2). A goodbye party with DJ Alman will follow the dinner.

Saturday, 30th August, 2014

Post-congress Excursion

13:00 **Departure to Bossea cave**

Please meet in front of the main venue (#1 on Map 2) ready to depart to Bossea cave by bus. Please make sure you have lunch before departure.

SPECIAL SESSION CAVELAB

Chair: Marco Isaia

This interactive session is dedicated to the CaveLab project, an interdisciplinary research project focusing on the effect of temperature on cave ecosystems. The session will be organised as a walking tour inside the cave, with speakers from different disciplines, including experts of cave biodiversity, cave ecology and cave physics. To make the most out of this session please make sure you have downloaded the necessary materials on your personal device. Please contact the Registration Desk to collect your materials.

It is advisable to visit the cave with suitable clothing (temperature 9° C). Collection is not permitted.

15:30 **Caves as laboratories for the study of the effects of temperature on ecosystems and biodiversity: researches of the CaveLab Project at Bossea show-cave (NW- Italy)**

M. Isaia

An outline of subterranean microclimate phenomenology

G. Badino

Microfungi in hypogean habitats

S. Di Piazza

Environmental drivers of lampenflora growth in the Bossea showcave (NW-Italy)

E. Piano

Diatom flora in subterranean habitats: the study case of Bossea show cave (NW- Italy)

E. Falasco

Potential of cave ecosystems as indicators for global warming

S. Mammola

19:30 **Dinner at local restaurant and departure for Torino**

Sunday, 31st August, 2014

Post-congress excursion

10:30 **Departure to EATALY**

Please meet in front of the main venue (#1 on Map 2) ready to depart to **EATALY** by tube.

11:00 **Shopping and free time**

You will have free time to discover the gastronomic heaven of **EATALY**, a high-end Italian food market comprising a variety of restaurants, food and beverage stations, bakery, and retail items.

13:00 **Lunch at Eataly**

After lunch you will have more free time to shop, drink or rest.

15:30 **Departure to Spa QC Terme**

The afternoon will be dedicated to hydro massages, saunas, steam baths and relaxation rooms, including a relaxing *aperitivo* in the outdoor pool.

Please remember to bring your swimming suit. A bathrobe, towels and flip-flops will be provided.

POSTER LIST

Posters will be presented in the first floor Hall (Map 1) on Tuesday 26th (17:30) and Thursday 28th (18:00).

BEHAVIOUR

- | | | |
|-----|------------------|--|
| BE1 | Ghislandi P. G. | Evolution of deceit by worthless donations in a nuptial gift-giving spider |
| BE2 | Just P. | RIMs in action: Courtship and copulatory behaviour of wolf spiders of the genus <i>Alopecosa</i> (Araneae, Lycosidae) |
| BE3 | Thomson J. I. | Plasticity and intersexual disparities in extended phenotypes: testing the effects of airflow on a sheet-weaving spider (Arachnida, Araneae) |
| BE4 | Velado Lobato P. | Does prey availability affect deception in a nuptial-feeding spider? |
| BE5 | Wearing O. H. | Display behaviour of male <i>Saitis barbipes</i> (Araneae, Salticidae), an attractive system for studying sexual signaling |

BIOGEOGRAPHY AND FAUNISTICS

- | | | |
|------|--------------|--|
| BF1 | Crespo L. C. | The genus <i>Orchestina</i> Simon (Araneae, Oonopidae) in the Mediterranean: how many species are there? |
| BF2 | Crespo L. C. | Unexpected species richness in small barren islands: diversification of the genus <i>Dysdera</i> Latreille, 1804 (Araneae, Dysderidae) in the Madeira archipelago |
| BF3 | Elkrew M. H. | First record of the spider family Palpimanidae (Thorell, 1870) (Arachnida, Araneae) in Libya |
| BF4 | Hula V. | Some interesting jumping spiders (Araneae, Salticidae) from the Czech Republic |
| BF5 | Katušić L. | A lot or not? A review of 200 years of spider research in Croatia |
| BF6 | Kaya R. S. | Diversity of the spider family Agelenidae (Arachnida, Araneae) in Turkey |
| BF7 | Kommenov M. | The burrowing spider genera <i>Brachythele</i> (Araneae, Nemesiidae) and <i>Lycosa</i> (Araneae, Lycosidae) in the Balkan Peninsula: a provisional synopsis and call for specimens |
| BF8 | Koponen S. | The large house spider <i>Tegenaria atrica</i> (Araneae, Agelenidae) established in Finland |
| BF9 | Mulas A. | A collection of Sardinian spiders (Arachnida, Araneae) |
| BF10 | Nekhaeva A. | Spiders (Arachnida, Araneae) of Khibiny Mountains, Kola Peninsula, Russia: a preliminary analysis |
| BF11 | Paschetta M. | Spiders (Arachnida, Araneae) of the site of community importance and special area of conservation "Alpi Marittime" (NW Italy) |
| BF12 | Szinetár C. | Why is the number of spider species in Central Europe still increasing? |
| BF13 | Zamani A. | About Hersiliidae Thorell, 1870 (Arachnida, Araneae) in Iran |

COMMUNITY ECOLOGY

- CE1 Ballarin F. Distribution patterns in ground dwelling-spiders along a debris-covered glacier foreland
- CE2 Biteniekytė M. Epigeic spider (Arachnida, Araneae) communities in Lithuanian peat bogs
- CE3 Bourbia S. Biodiversity of stand spiders in forests of Seraidi north-east of Algeria (Edough)
- CE4 Capowiez Y. Crop protection strategies influence the structural and functional diversity of epigeal spiders in apple orchards
- CE5 Chatzaki M. Open, risky and sunny grasslands OR mysterious, dark and humid forests? A case study of Gnaphosidae (Arachnida, Araneae) in Pindos Mts, Greece
- CE6 Debnár Z. Ground-dwelling spider assemblages of lowland oak secondary succession series
- CE7 Glerean P. Spider communities of open and wooded habitats in the Natural Park of Prealpi Giulie (Udine, Friuli Venezia Giulia, south-eastern Alps, Italy)
- CE8 Grbic G. Spiders living in the Deliblato Sand (Serbia), the largest European continental sands
- CE9 Havlová L. The difference in species diversity and abundance of spiders on grape vine on terraced and conventional vineyards based on the type of management
- CE10 Horváth R. Do local or landscape-level factors have more important influence on the abundance and species richness of spiders in dry sandy grassland fragments in Hungary?
- CE11 Hörweg C. Is there a correlation among species richness of three arachnid orders (Arachnida: Araneae, Opiliones, Pseudoscorpiones)? – Results of an investigation in core area forests and managed forests in the Wienerwald biosphere reserve, Austria
- CE12 Lubin Y. Rock, sand and loess: geomorphology for spiders
- CE13 Mangaly R. K. A survey of spider fauna in Malayatoor, an ecologically challenging part of southern western Ghats, India
- CE14 Michalko R. Changes in coexistence mechanisms with spatial scale and management type in the spider communities from vineyard terraces
- CE15 Niedobová J. Vertical structure of lowland deciduous forest spider community
- CE16 Piano E. Comparison between spider assemblages inhabiting the cave and the associated MSS in the Pugnetto hypogean complex (NW Italy)
- CE17 Picchi M. S. Ground-dwelling spiders in forest and adjoining olive groves: spillover as usual?
- CE18 Sivec N. Spider species richness comparison within protected and unprotected area in Eastern Slovenia
- CE19 Tajthi B. The effects of non-native plantations on ground-dwelling spider assemblages

COLLECTIONS & WEB-BASED RESOURCES

- CW1 Dolejš P. A collection of horseshoe crabs (Chelicerata, Xiphosura) in the National Museum, Prague (Czech Republic)
- CW2 Gavish-Regev E. From a small local collection to an active major regional collection: the National Arachnid Collection at the Hebrew University, Israel
- CW3 Kasal P. www.arachnobaze.cz
- CW4 Kropf C. World Spider Catalog
- CW5 Nentwig W. World Spider Catalog Association

ECOLOGY

- EC1 Beleznai O. A. Cost of fear II. Predator presence directly affects leafhopper's fitness
- EC2 Capowiez Y. Effects of Spinosad application in apple orchard on the abundance of the spider *Araneus diadematus* (Araneae, Araneidae) and the characteristics of its web
- EC3 García-Hernández L. F. Selective predation in the spider *Nops* sp. (Araneae, Caponiidae), a possible araneophagous specialist
- EC4 Hendrickx F. Inter- and intra-island introgression in a wolf spider (Araneae, Lycosidae) radiation from the Galápagos, and its implications for parallel evolution
- EC5 Košulič O. Effect of canopy openness on distribution of sibling species from *Pardosa lugubris*-group (Araneae, Lycosidae)
- EC6 Lacava M. Effect of the glyphosate on the functional response of two Uruguayan wolf spider species (Araneae, Lycosidae)
- EC7 Lacava M. Effect of selective and non-selective insecticides on survival and feeding behavior of two Uruguayan wolf spider species (Araneae, Lycosidae)
- EC8 Michalko R. Are distinct hunting strategies of euryphagous spiders linked to their trophic functional distinction?
- EC9 Nagy D. D. Mite infection of *Carabus violaceus* (Coleoptera, Carabidae) in lowland oak forest fragments
- EC10 Neumann R. Comparative assessment of adaptive developmental plasticity in African golden-silk spiders (Araneae, Nephilidae): males in *Nephila senegalensis* (but not in *N. fenestrata*) accelerate sexual maturation in response to female silk cues
- EC11 Plăiasu R. Higher levels of fluctuating asymmetry in harvestmen cave (Arachnida, Opiliones) populations compared to surface populations
- EC12 Ventura L. The effect of colony density on fitness and dispersal of the colonial spider *Cyrtophora citricola* (Araneae, Araneidae)

FUNCTIONAL MORPHOLOGY

- FM1 Babalean A. F. Histological and histochemical study of the mesenteron of four species of opilionids (Arachnida, Opiliones)
- FM2 Ganske A. S. Chemical communication in spiders – SEM analysis of the distribution of chemosensilla on male *Argiope bruennichi* (Araneae, Araneidae)
- FM3 Laudier D. Comparison of zinc-based fixatives for histochemical and histomorphometric analysis of arachnid tissues
- FM4 Wolff J. O. Smooth adhesive foot pads in arachnids

GENETICS

- GE1 Forman M. Comparative cytogenetic study of two ctenid spiders, *Cupiennius salei* and *Viridasius fasciatus* (Araneae, Ctenidae)
- GE2 Forman M. Findings of unusual karyotypes in early-diverging entelegyne spiders
- GE3 Schönhofer A. L. Karyotype evolution of the harvestmen suborder Laniatores (Arachnida, Opiliones)

PHYSIOLOGY – SPIDER SILK

- PHS1 Řezáč M. Morphology, function and evolution of spider silk glands – a review
- PHS2 Wittwer S. How spiders avoid getting stuck in gluey capture threads: evidence for a protective surface coating in Theridiidae and Pholcidae (Arachnida, Araneae)
- PHS3 Zhang S. Mass survey of antimicrobial function of spider and egg sac silks

PHYSIOLOGY – VENOM

- PHV1 Joola P. A climatological study of scorpion sting incidence from 2007-2011 in the Dezful area of south-western Iran, using time series model
- PHV2 Mohammadpour Dounighi N. Preparing and characterizing chitosan nanoparticles containing *Hemiscorpius lepturus* (Scorpiones, Hemiscorpiidae) scorpion venom as an antigen delivery system
- PHV3 MolaieZadeh M. S. Laboratory rearing of *Latrodectus tredecimguttatus* (Araneae, Theridiidae)
- PHV4 Sentenská L. Male and female venom glands in a sexually stinging scorpion (Arachnida, Scorpiones)
- PHV5 Mirakabadi A. Z. Time related effects of *Latrodectus dalhi* (Araneae, Theridiidae) venom on serum biochemical changes in rabbits
- PHV6 Zolfagharian H. Effect of *Hemiscorpius lepturus* (Hemiscorpiidae, Scorpiones) venom on biochemical parameters in rabbits

SYSTEMATICS

- SY1 Ballarin F. New records of *Amaurobius scopolii* Thorell, 1871 and *A. pavesii* Pesarini, 1991 (Araneae, Amaurobiidae) with notes on their morphological separation
- SY2 Chiarle A. The genus *Cybaeus* (Araneae, Cybaedidae) in the Alps
- SY3 De Miranda G. S. Taxonomic review of the Amblypygid genus *Trichodamon* Mello-Leitão, 1935 (Amblypygi, Phrynichidae)
- SY4 Deltshv C. A contribution to the taxonomy of the spider genus *Troglohyphantes* Joseph, 1881 (Araneae, Linyphiidae) in the Balkan Peninsula
- SY5 Malametheruvil J. J. *Fecenia travancoria* Pocock is recognised as a junior synonym of *F. protensa* Thorell (Araneae, Psecridae): a case of intraspecific variation
- SY6 Maya-Morales J. Taxonomic revision of the funnel-web spider genus *Novalena* Chamberlin & Ivie 1942 (Araneae, Agelenidae), with emphasis on the Mexican taxa
- SY7 Mitov P. An enigmatic new trogulid from the Balkans (Opiliones, Troglidae)
- SY8 Navidpour S. Two new species of the genus *Odontobuthus* (Scorpiones, Buthidae) from southern and eastern Iran
- SY9 Pradeep S. M. A new species of jumping spider from the Western Ghats of India with comments on mating plug in the family Salticidae (Arachnida, Araneae)
- SY10 Richard M. The genus *Ischnothyreus* (Araneae, Oonopidae) from Java and Sumatra
- SY11 Rossi A. On the type locality of *Pandinus ulderigoi* Rossi, 2014 (Scorpiones, Scorpionidae) and its vulnerable status
- SY12 Marusik Y. M. Inconsistency in arachnological terminology: can it be standardized?

ACCOMPANYING PERSONS PROGRAM

Sunday, 24th August, 2014

Welcome Party

During this first day, accompanying persons are invited to the registration desk to gather their materials. After registration, everybody is invited to our Welcome party.

Monday 25th August, 2014

The Superga Cathedral

After the opening ceremony, we will have a walk in the main squares and streets of the city center. Then, we will move to the Superga Rack Railway, which connects the Superga hill to the Turin suburb of Sassi. A traditional lunch will be offered to all participants in a restaurant near Superga. After lunch we will visit the Basilica of Superga, which is a prominent cathedral located on the top of the Superga hill. It was designed by Filippo Juvarra in 1717 and inaugurated in 1731 for Victor Amadeus II of Savoy. It is a baroque cathedral, with a magnificent dome, hosting the Royal Crypt of Superga, the burial place of the Savoy family. On our way back, we will take a nice walk to the Santa Maria del Monte dei Cappuccini, which is a late-Renaissance style church on a hill overlooking the Po river, near the bridge of Piazza Vittorio Veneto. It was built for the Capuchin Order, and construction began in 1583, but was completed in 1656. Here you will enjoy a nice view on one of the most beautiful Turin's squares, Piazza Vittorio Veneto. Accompanying persons are then invited to participate at the Congress photo, which will be taken close to the Congress venue.

In the evening the accompanying persons are invited to join the Congress participants at the "Lab" in Vittorio square for the Jazz Trio concert and aperitivo (buffet dinner is included in your fee). Please bring the corresponding ticket.

Schedule:

- 09:00 Opening ceremony
- 10:00 Walk in the city center
- 11:30 Transfer to the rack railway
- 12:00 Trip on the rack railway
- 12:30 Traditional lunch
- 14:30 Visit of the Superga Cathedral and return to the rack railway
- 15:30 Return trip on the rack railway
- 16:00 Walk and visit to the Santa Maria del Monte dei Cappuccini
- 17:30 Congress photo (#4 on Map 2)
- 19:00 Jazz@LAB (#3 on Map 2)

Tuesday 26th August, 2014

Visit to the Gran Madre Church, the Borgo Medievale and the Botanical Garden

On Tuesday we will visit the Gran Madre church, which is located close to the boarding area. This is a Neoclassical-style church located opposite Piazza Vittorio Veneto and its architecture recalls the Pantheon in Rome. Its construction was commissioned to celebrate the defeat of Napoleon by the Savoy in 1814. Its construction started in 1818 and it was inaugurated in 1831. After the visit, we will take the ferry to sail on the Po river and we will spend our time before lunch relaxing in the Valentino Park. The Valentino Park is a

beautiful urban park on the left bank of the Po river. Its origin is dated 1630 with the project of Carlo Cognengo di Castellamonte, but its expansion goes back to the second half of the 19th century. It hosts 1,800 trees, some of which are monumental, and every season is characterized by different flowering species. The park hosts also plenty of birds, in particular herons and ducks, but in the summer you can also find swallows, which constitute a huge colony inside it. Lunch will be offered inside the Borgo Medievale. After lunch, we will have a guided tour inside the Borgo Medievale. The Borgo Medievale consists of the Medieval Village, the Castle and the Garden. The Medieval Village reproduces 15th century buildings of Piedmont and Valle d'Aosta. The Medieval Castle is the main building inside the Borgo and it hosts splendid rooms with gorgeous furniture, fabrics and furnishings, distinctive of the taste and customs of 15th century castle life. The Medieval Garden is composed of three sections: the Garden of Pleasure, full of ornamental and beautiful flowers beloved by ladies in the 15th century, the Garden of Simple Remedies, with medical plants used by pharmacists, and the Kitchen Garden, with fruit trees and vegetables. The last part of our day will be the visit to the Botanical Garden. It was founded by King Vittorio Amedeo II of Savoy in 1729. It consists of two parts separated by a building which nowadays hosts the Department of Botany of the University of Turin and a herbarium. The part on the southern side of the building is called "the garden". It is composed mainly by herbs, with greenhouses hosting tropical species. On the northern side of the building there is the "grove", with several local and exotic arboreal species. In the evening you will join the Congress participants on a free guided city tour.

Schedule:

10:00 Meeting at the Congress venue and transfer to the Valentino Park
10:30 Visit of the Gran Madre church and transfer to the boarding area
11:30 Boarding on the boat
11:45 Visit to the Valentino Park
13:00 Lunch
15:00 Guided tour to the Borgo Medievale
16:00 Transfer to the Botanical Garden
16:30 Guided tour to the Botanical Garden
18:00 Return to the Congress venue
19:00 Guided city tour

Wednesday 27th August, 2014

Mid-Conference Excursion

See pag. 14

Thursday 28th August, 2014

The Egyptian Museum, the Cinema Museum and the Mole Antonelliana

Thursday will be dedicated to the two most important museums in Torino, the Egyptian Museum and the Cinema Museum. In the morning, we will spend our time visiting the Egyptian Museum. For its importance in terms of collections, the Egyptian Museum of Torino is the second museum after Cairo. The collection was started in 1630 by the Savoy family. However, the main contribution arrived in 1824 with the acquisition by King Carlo Felice of Savoy of the Drovetti's collection, composed of 5,268 objects. On that occasion, the Royal Museum of Ancient Egypt was founded in Torino. At the present time, 6,500 objects are displayed, and 26,000 more are stored in the Museum Collections. Lunch will be offered in the city center. In the afternoon you will enjoy the awesome sights of the city from the top of the Mole Antonelliana, and then we will visit the Cinema Museum which is hosted inside the building. The Mole Antonelliana is the architectural symbol of Turin, designed by Alessandro Antonelli, to whom the name of the architecture is

dedicated. Its construction started in 1823 and was completed in 1889. At that time it was the tallest masonry monument in Europe (167,50 m in height). The Cinema Museum occupies the lowest floor of the Mole Antonelliana. It presents a vertical itinerary, which involves different levels, designed by François Confino, who created a spectacular presentation offering visitors continuous and unexpected visual and acoustic stimuli. In the evening we will join the Congress participants for the Russian Party.

Schedule:

- 10:00 Meeting at the Congress venue and transfer to the Egyptian Museum
- 10:30 Visit of the Egyptian Museum
- 12:00 Lunch
- 14:00 Visit to the Cinema Museum and Panoramic Lift
- 17:30 Return to the Congress venue
- 19:30 Russian Party (#2 on Map 2)

Friday 29th August, 2014

Free Day

The last day will be left free to enjoy Turin and go shopping. We will be pleased to suggest you and lead you to some traditional shops where you can buy typical products. In the afternoon, accompanying persons are invited to join the closing ceremony at the Congress venue. In the evening we will enjoy the Social Dinner at Esperia Rowing Club (#6 on Map 2).

LIST OF PARTICIPANTS

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