

Abstracts of the

4th CENTRAL EUROPEAN WORKSHOP OF MYRMECOLOGY

15-18 September 2011

Cluj-Napoca, Romania



PROGRAM

16th September, Friday

- 09:45 Welcome address: prof. dr. László RÁKOSY, head of the Department of Taxonomy and Ecology / dr. Bálint MARKÓ, organizing committee
- 10:00 Birgit C. SCHLICK-STEINER and Florian M. STEINER: Integrative taxonomy: a multisource approach to exploring biodiversity (*plenary talk*)
- 11:20 Sándor CSÖSZ, Andreas SCHULZ, Manfred VERHAAGH: Pattern recognition in *Temnothorax nylanderi* species group with an exploratory data analysis tool AGNES (AGglomerative NESTing)
- 11:40 Jens DAUBER, Chiara POLCE, William E. KUNIN, Jacobus C. BIESMEIJER and the ALARM Field Site Network: Response of ant communities to microclimate and land use in Europe
- 12:00 Gábor LÓRINCZI: Seasonal structuring of sub-Mediterranean ground-dwelling ant communities
- 12:20 Masaki SUEFUJI and Jürgen Heinze: Phylogeographic analysis and population genetics of the threatened, slave-making ant *Myrmoxenus ravouxi* (Formicidae: Myrmicinae)
- 12:40 Herbert Christian WAGNER and Bernhard SEIFERT: *Temnothorax turcicus* (SANTSCHI, 1934) - distribution and ecology of a rare arboreal ant (Hymenoptera: Formicidae)
- 15:00 Tatyana PUTYATINA: The reasons of biological success of ants *Lasius niger*, *Myrmica ruginodis* and *Formica cinerea* in urban conditions
- 15:20 Nina WAUTERS, Wouter DEKONINCK, Frederik HENDRICKX, Henri HERRERA and Denis FOURNIER: The tropical fire ant *Solenopsis geminata*: a threat to the Galapagos arthropodian fauna
- 15:40 István MAÁK, Zsófia SZÓKE, Katalin ERŐS, Zolt CZEKES and Bálint MARKÓ: Territorial debates between *Formica pratensis* RETZ. and the supercolonial *F. exsecta* Nyl.: conflict or competition? – **Abstract**
- 16:00 Piotr ŚLIPIŃSKI, Bálint MARKÓ, Wojciech CZECHOWSKI and Tomasz WŁODARCZYK: Space use in *Formica sanguinea* - my territory my kingdom? – **Abstract**
- 16:20 Lenka PETRÁKOVÁ and Jiří SCHLAGHAMERSKÝ: Polymorphism in *Liometopum microcephalum* (Formicidae: Dolichoderinae): is it related to territory size?

17th September, Saturday

- 9:00 Jürgen HEINZE: The role of relatedness in the organization of insect societies (*plenary talk*)
- 10:20 Jürgen TRETTIN, Monika HAUBNER, Alfred BUSCHINGER and Jürgen HEINZE: Proximate determinants of high skew among ant queens
- 10:40 Abel BERNADOU and Jürgen HEINZE: Behavioural changes and nest site selection in the ant queen, *Leptothorax gredleri*.
- 11:00 Jouni SORVARI: Alien queen acceptance in queen-rich and queenless colonies of *Myrmica rubra*
- 11:20 Ivan IAKOVLEV and Zhanna REZNIKOVA: Early task specialization in red wood ants – **Abstract**
- 12:00 Zhanna REZNIKOVA: Cognitive aspects of division of labour and information transfer at the individual level in group-retrieving *Formica* ants – **Abstract**

- 12:20 Steffen PIELSTRÖM and Flavio ROCES: Vibrational communication and the excavation behavior in the leaf-cutting ant *Atta volLENweideri* (FOREL)
- 12:40 Marion FÜSSL, Jürgen HEINZE and Alexandra SCHREMPF: Differences in the protein pattern of male accessory gland proteins of the ant species *Cardiocondyla obscurior*
- 15:00 Veronika JILKOVÁ and Jan FROUZ: Mechanisms of pH change in wood ant (*Formica polyctena*) nests
- 15:20 András TARTALLY, Matthias A. FÜRST, Andreas KELAGER, Tibor-Csaba VIZAUER, László RÁKOSY, Zoltán VARGA and David R. NASH: Syntopic genetic differentiation in *Maculinea alcon* (Lepidoptera: Lycaenidae) linked by host plants and host ants
- 15:40 Zsolt CZEKES, Bálint MARKÓ, Márta FERENCZ, Bernadette LÁZÁR, Gyöngyvér MOLNÁR, David R. NASH and László RÁKOSY: The effect of host plant characteristics and ant community structure on egg laying patterns in sympatric populations of *Maculinea alcon alcon* and *M. alcon 'rebeli'*
- 16:00 Sofia PANTELEEVA, Olga VYGONYAILOVA and Zhanna REZNIKOVA: Red wood ants as a perilous temptation for small rodents – **Abstract**
- 16:40 Bálint MARKÓ, Enikő CSATA, Katalin ERŐS, Zsolt CZEKES and Enikő NÉMET: The effect of the parasitic fungus *Rickia wasmannii* (Ascomycetes: Laboulbeniales) on the lifespan of its host ant *Myrmica scabrinodis* (Hymenoptera: Formicidae)
- 17:00 Csaba NAGY, Viktor MARKÓ and Jerry V. CROSS: Effects of exclusion or supplementary sucrose feeding of the ant *Lasius niger* (L.) on aphid populations and aphidophagous predators on apple
- 17:20 **POSTER SESSION** 5 mins./poster

POSTERS

- 1 Hanna BABIK: Ants of Botanical and Zoological Gardens of Warsaw (Poland) – **Abstract**
- 2 Klára BENEDEK, Otília KÓBORI and Zsolt CZEKES: Opposite of 'dear enemy' phenomenon in *Formica pratensis* RETZ. (Hymenoptera: Formicidae)
- 3 Gregor BRAČKO, Herbert Christian WAGNER, Erika GIOAHIN, Janja MATIČIČ and Ana TRATNIK: Contribution to the knowledge of the ant fauna of southeastern Republic of Macedonia – **Abstract**
- 4 J. CHLUMSKÝ, P. KOUTECKÝ, Veronika JILKOVÁ and M. ŠTECH: Seed dispersal and adaptations to myrmecochory in the genus *Melampyrum*
- 5 Enikő CSATA, Zsolt CZEKES, Katalin ERŐS, Enikő NÉMET, Bálint MARKÓ: Myrmecopathogenic fungi in Romania.
- 6 Wojciech CZECHOWSKI: „New” *Ants of Poland* – soon
- 7 Katalin ERŐS, Anna-Mária SZÁSZ-LEN, Enikő CSATA, Zsolt CZEKES and Bálint MARKÓ: Habitat characteristics of polydomous systems in *Formica exsecta* NYL. (Hymenoptera: Formicidae) in Eastern Carpathians, Romania. – **Abstract**
- 8 Nana GRATIASHVILI, Sh. BARJADZE, Masaki SUEFUJI and Jürgen HEINZE: Re-discovery of *Myrmoxenus tamarae*, socially parasitic ant from Georgia
- 9 Orsolya KANIZSAI: Small-scale foraging by *Camponotus vagus* and *Formica fusca* (preliminary results) – **Abstract**
- 10 Kadri KIRAN and Volkan AKSOY: Ant fauna of Sultan Mountains, Turkey (Hymenoptera: Formicidae)
- 11 Alben LAPEVA-GJONOVA and Ilia GJONOV: Ant-attendance in family Tettigometridae (Hemiptera: Fulgoromorpha)
- 12 Paweł Jarosław MAZURKIEWICZ, Katarzyna CZAJKOWSKA, K. ZIĘBA, A. KLEJNY, Z. BORZYMOWSKA, B. SYMONOWICZ and Ewa Joanna GODZIŃSKA: The effects of age, training and enriched environment on the ontogeny of defense behaviour in juvenile workers of the red wood ant *Formica polyctena* FÜRST. – **Abstract**
- 13 Birgit C. SCHLICK-STEINER, Herbert ZETTEL and Florian M. STEINER: The development of *Myrmecological News* into an international journal
- 14 Anna-Mária SZÁSZ-LEN, Katalin ERŐS, Enikő CSATA, Zsolt CZEKES and Bálint MARKÓ: Habitat preference of *Myrmica vandeli* BONDROIT, 1920 (Hymenoptera: Formicidae) and its place in the ant communities. – **Abstract**
- 15 Andreas SCHULZ, Sándor CSÓSZ and Manfred VERHAAGH: Multi-methodical approach to review a *Temnothorax* species group – a conception.
- 16 Klára SZÜCS, Szilvia VARGA, Enikő TÁNCZOS, Barbara GUBÁN, Edit MIZSEI, Edit FARKAS, Mária HARMATI and László GALLÉ: The role of individual differences in food utilization and interference competition: case studies on five ant species (Hymenoptera: Formicidae) – **Abstract**
- 17 Mate ZEC, Boris BOŽIĆ, Jelena BUJAN, Matija PENEZIĆ and Ana JEŠOVNIK: Myrmecofauna of the Zrmanja and Krupa river canyon
- 18 Ioan TĂUȘAN and Bálint MARKÓ: Too salty? Not for *Tetramorium* cf. *caespitum*. Ant community of the Ocna Sibiului salina, Romania

18th September, Sunday

- 8:00 Trip to the Salt Mine of Turda, and to Rimetea village (lunch at the Székelykö Kúria)

organized by:
Department of Taxonomy and Ecology, Babeş-Bolyai University and Apáthy István Society
Cluj-Napoca
Romania

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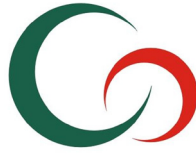


Fig. 1. Poster session tour (from left to right: Florian M. STEINER, Jens DAUBER [behind F.M.S.], Jürgen TRETTIN, Balázs KAHOLEK [behind J.T.], Ivan IAKOVLEV, Sándor CSÖSZ, Birgit C. SCHLICK-STEINER [behind S.Cs.], Matija Penezich [behind B.C.Sch-S.], Enikő NÉMET, Csaba NAGY, Jouni SORVARI [behind Cs.N.], Herbert Christian WAGNER, András TARTALLY, István MAÁK, Anna SOMOGYI [in front of I.M.], Enikő CSATA [in front, right], Hanna BABIK [behind E.Cs.], Paweł MAZURKIEWICZ, Zsófia SZÓKE).



Fig. 2. Participants at the 4th Central European Workshop of Myrmecology in the courtyard of the Babeş-Bolyai University, Cluj-Napoca.



Fig. 3. During presentations.



Fig. 4. Collecting ants at the feet of the Szekler's Rock at Rimetea on 18.09.2011 (from left to right: Steffen PIELSTRÖM [above], Julia STEINER [below] Bálint MARKÓ, Florian M. STEINER [below], Iris STEINER [below]).



Fig. 5. Jürgen HEINZE collecting *Leptothorax acervorum* during the post-workshop trip to Senetea.



Fig. 6. Alexander G. RADCHENKO looking at *Myrmica* ants during the post-workshop trip to Senetea.



Fig. 7. Midnight myrmecologist party: ant identification at the Apáthy István Fieldstation during the post-workshop trip to Senetea (from left to right: Steffen PIELSTRÖM [below], Csaba NAGY [above], Mate ZEC [below], Hanna BABIK [above], Gregor BRAČKO, Kadri KIRAN, Jürgen HEINZE, Jürgen TRETTIN, Herbert Christian WAGNER).