

International Symposium Ecology of Aphidophaga 12

Belgrade - SERBIA, September 9-13, 2013

Program

The 12th symposium is dedicated to Dr. Helmut van Emden, a founding member of our group, for his extensive contributions to aphid natural enemy ecology and more than 50 years of support and participation in Aphidophaga.

Sunday, September 08, 2013

12:00-19:30	Registration	Hotel PALACE – reception desk
20:00-23:00	Welcome garden party	Botanical Garden "Jevremovac" (Takovska St., 43)

Monday, September 09, 2013

08:30	Registration	The Great Hall of the Serbian Academy of Sciences and Arts (Knez Mihailova St., 35)
10:00	Opening ceremony	
	Željko Tomanović, University of Belgrade, local organizer	
	Marko Andjelković, academician, Presidency of Symposium	
	J.P. Michaud, Kansas State University, USA, Steering Committee	
	Jacques Brodeur, Montreal University, Canada	
	Ivica Radović, Deputy Minister for Education, Science and Technological Development	
	Jelena Knežević – Vukčević, Dean of the Faculty of Biology, University of Belgrade	
Session 1 - Community Structure Moderators: Diepenbrock, L.M. and Kindlmann, P.		
12:00-12:20	Ameixa, O.M.C.C., Gerben J. Messelink, G.J. and Kindlmann, P. Nonlinearities lead to qualitative differences in population dynamics of predator-aphid systems.	
12:20-12:35	Grež, A.A. , Zaviezo, T., Rodríguez-San Pedro, A., Hernández, J. and Acuña, P. Effects of landscape composition and heterogeneity on the abundance of native coccinellids and biological control of aphids in alfalfa fields.	

12:35-12:50	Diepenbrock, L.M. and Finke, D.L. Refuge for native lady beetles (Coleoptera: Coccinellidae) in perennial grassland habitats.	The Great Hall of the Serbian Academy of Sciences and Arts (Knez Mihailova St., 35)
12:50-13:05	Lavandero, B. and Tylianakis, J. Genotype matching in a parasitoid-host genotypic food web: an approach for measuring effects of environmental change.	
13:05-13:30	Discussion	
13:30-16:00	Lunch break	Hotel PALACE (Topličin venac St., 23)
16:00-16:15	Janković, M., Četković, A., Plećaš, M., Tomanović, Ž. and Gagić, V. Aphid and natural enemies densities and parasitism in relation to landscape and field scale complexity – multiscale approach.	
16:15-16:30	Novgorodova, T.A. Do inexperienced ants (Hymenoptera: Formicidae) collecting honeydew recognize aphidophages during their first encounter?	
16:30-16:45	Madeira, F., Lascio, A. and Pons, X. Are aphids a tool for tracking predator movement between maize and alfalfa using stable isotope analysis?	
16:45-17:15	Discussion	
19:30-	Belgrade fortress – Sightseeing, walking tour	

Tuesday, September 10, 2013

08:30 Registration and poster mounting

Session 2 - Coccinellid Ecology

Moderators: Michaud, J.P. and Nedvĕd, O.

09:00-09:20 **Michaud, J.P.** Parental effects in aphidophagous Coccinellidae and their life history consequences.

09:20-09:40 **Ninkovic, V.** Ladybird foraging behaviour an underestimated process.

09:40-10:00 **Dixon, A.F.G.**, Sato, S., Kindlmann, P. and Honek, A. Evolution of slow and fast development in predatory ladybirds.

10:00-10:20 **Osawa, N.** Maternal investment through sibling egg cannibalism in the ladybird beetle *Harmonia axyridis* (Coleoptera: Coccinellidae): the role of eggs size.

10:20-10:35 **Suzuki, N.**, Osawa, N. and Nishida, T. Asymmetric reproductive interference between specialist and generalist *Harmonia* ladybirds in Japan.

10:35-10:50 **Nedvĕd, O.**, Awad, M., Laugier, G.J.M., Loiseau, A., Piálek, L. and Krejčí, A. Paternity and sperm competition among males of the ladybird *Harmonia axyridis* (Coleoptera: Coccinellidae).

10:50-11:15 **Discussion**

11:15-11:45 **Break**

11:45-12:00 **Michaud, J.P.** and Vargas, G. Age-specific maternal effects interact with larval food supply to modulate life history in *Coleomegilla maculata* (Coleoptera: Coccinellidae).

12:00-12:15 **Fassotte, B.**, Fischer, C., Durieux, D., Lognay, G. and Verheggen, F.J. First evidence of a volatile sex pheromone in the invasive *Harmonia axyridis* Pallas (Coleoptera: Coccinellidae).

12:15-12:30 **Godeau, J.F.** and Ceryngier, P. Identification of prey items in frass of three ladybird beetles living on black alder.

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12:30-12:45	Beliakova, N.A. and Polykarpova, Y.B. Effects of alternative prey on larval development and reproduction of the lady beetle <i>Cheilomenes sexmaculata</i> (Coleoptera: Coccinellidae).	
12:45-13:00	Razmjou, J. , Ali Zamani, T., Golizadeh, A. and Hasanpour, M. The effect of vermicompost on population growth parameters and fecundity of <i>Hippodamia variegata</i> (Goeze) feeding on <i>Aphis gossypii</i> (Hemiptera: Aphididae)	
13:00-13:15	Borges, I. , Hemptinne, J.L. and Soares, A.O. Contrasting population growth parameters of the aphidophagous <i>Scymnus nubilus</i> and the coccidophagous <i>Nephus reunioni</i> (Coleoptera: Coccinellidae).	
13:15-13:45	Discussion	
13:45-16:00	Lunch break	
16:00-18:00	Poster Session – hotel PALACE – Banquet Hall	
19:30-	Optional program – Cruising and dinner	
Wednesday, September 11, 2013		
8:00-19:30	One day excursion to Zasavica (nature reserve) and Sremski Karlovci	

Thursday, September 12, 2013

08:30-09:00 **Registration and poster mounting**

Session 3 - Aphid Parasitoids

Moderators: Vorburger, C. and Kavallieratos, N.G.

09:00-09:20 **Vorburger, C.** Symbiont-conferred resistance to parasitoids – implications for biological control.

09:20-09:40 **Heimpel, G. E.**, Biondi, A. and Desneux, N. The role of host and host-plant phylogenies in aphid parasitoid specificity

09:40-10:00 **Gagić, V.**, Petrović-Obradović, O., Fründ, J., Kavallieratos, N.G.; Athanassiou, C.G.; Starý, P. and Tomanović, Ž. Relationship between aphid traits and generalist-specialist host-use of parasitoids.

10:00-10:20 **Kavallieratos, N.G.**, Tomanović, Ž., Petrović, A., Janković, M., Starý, P., Yovkova, M. and Athanassiou, C.G. Parasitoids (Hymenoptera: Braconidae: Aphidiinae) of aphids infesting herbaceous and shrubby ornamental plants in southeastern Europe.

10:20-10:40 Vamvatsikos, P., **van Emden, H. F.** and Hardie, J. The flexible responses to plant odor of a generalist aphid parasitoid, *Aphidius colemani* (Hymenoptera: Braconidae).

10:40-10:55 Zepeda-Paulo, F.A., Ortiz-Martínez, S., Figueroa, C.C. and **Lavandero, B.** Adaptive evolution of a generalist parasitoid: Implications for the effectiveness of biological control agents.

10:55-11:25 **Break**

11:25-11:40 **Plečaš, M.**, Janković, M., Gagić, V., Tomanović, Ž. and Četković, A. Parasitism threshold for effective biological control of cereal aphids in different landscape types.

11:40-11:55 **Dassonville, N.**, Thielemans, T. and Rosemeyer, V. Emergence of aphid parasitoids (Hymenoptera: Braconidae and Aphelinidae) at low temperature.

11:55-12:10 **Ben Halima Kamel, M.**, Mdellel, L. and Rakhshani, E. Study on some biological parameters of *Pauesia antennata* Mukerji (Hymenoptera: Braconidae, Aphidiinae), a parasitoid of *Pterochloroides persicae* (Hemiptera: Aphididae: Lachninae).

12:10-12:25 **Kaiser, M.C.** and Heimpel, G.E. Can aphid alarm pheromones induce changes in conspecific aphid reproductive rates?

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12:25-12:40	Sana, Z. and Ben Halima-Kamel, M. Temperature and host plant effects on demographic parameters of <i>Aphidius transcaspicus</i> Telenga (Hymenoptera: Braconidae)	
12:40-13:10	Discussion	
13:10-14:30	Poster Session – hotel PALACE – Banquet Hall	
14:30-16:00	Lunch Break	
16:00-17:30	Optional program	
20:00-	Banquet at Hotel PALACE	

Friday, September 13, 2013

Session 4 - IPM and Biological Control of Aphids

Moderator: Brodeur, J.

09:00-09:15	van Schelt, J. and Messelink, G. The screening of biocontrol agents to control aphids in greenhouses.
09:15-09:30	Guesmi-Jouini, J., Fernandez-Bravo, M., Ben Halima-Kamel, M. , Garrido-Jurado, I. and Quesada-Moraga, E. Effects of temperature and water activity on mycelial growth of nine Tunisian entomopathogenic fungal isolates as biocontrol agents against the artichoke aphid, <i>Capitophorus elaeagni</i> del Guercio (Hemiptera: Aphididae).
09:30-09:45	Kaser, J.M. and Heimpel, G.E. Risk and efficacy in biological control: The introduction of <i>Aphelinus certus</i> (Hymenoptera: Aphelinidae) in North America.
09:45-10:00	Lopes, T. , Bodson, B. and Francis, F. Crop association to improve biological control: a case study on pea and wheat aphids.
10:00-10:15	Ali, A. , Lu, Y.H., Wu, K.M. and Desneux, N. Impact of natural enemies on wheat and cotton aphids in northern China.
10:15-10:45	Discussion
10:45-11:15	Break
11:15-13:00	Closing remarks
13:00-14:30	Lunch break
14:30-16:00	Optional program – National Bank of Serbia
20:00-00:00	Optional program – Dinner in bohemian quarter - Skadarlija

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