

Lacewing News



NEWSLETTER OF THE INTERNATIONAL ASSOCIATION OF NEUROPTEROLOGY

No. 21

Presentation

Greetings once again to everyone. Here we go with our second issue of 2015! As always, thanks to all enthusiast neuropterologists who kindly sent contributions, notes, and bibliographic references. This is the first newsletter after the last International Symposium, so all of us probably are expecting related news but despite a lot of emails from me, I've received no news, photos, or others about that event and related issues (minutes concerning IAN, official decision regarding next International meetings, and so on). I hope we will have something for the next issue of LN... Please send all communications concerning Lacewing News to agostino.letardi@enea.it (Agostino Letardi). Questions about the International Association of Neuropterology may be addressed to our current president, Dr. Michael Ohl (Michael.Ohl@mfn-berlin.de).



Poetry's corner

From Sam Droege

Geckos in Obscure Light

Tentative, greedy, by night they came, drawn to the insects drawn to the light.

Autumn 2015

Their shadow organs pulsed beneath bellies distended as Falstaff's,

backs a tarnished armor studded by the rosettes of some obscure disease.

What of their victims, the cannon fodder, Welsh soldiery thrown each night

against the muzzle flare? Ragged, high-strung moths, green lacewings streamlined like F-16s—

the geckos, those great officers and kings, took them into their mouths, more or less

at leisure, with a gratifying snap. Silently, of course, through the pane of glass,

where death comes on a smaller scale.

- WILLIAM LOGAN

From the Editor of LN

Neuropterologist is on the air!

podcast! http://traffic.libsyn.com/cienciaes/en053_nemopt era_monserrat.mp3

http://cienciaes.com/entrevistas/2011/06/03/lasintimidades-de-la-nemoptera-hablamos-convictor-monserrat/



From Peter Austen

Ed Jarzembowski - 2015 Jiangsu Friendship Award



Congratulations to Ed Jarzembowski, who has received a Friendship Award from the Jiangsu Province of China (which has a larger population than the whole of the UK). The "Jiangsu Friendship Award" is the highest award of Jiangsu Provincial People's Government for foreign experts, and is given in recognition of outstanding contributions to Jiangsu Province with regard to economic progress and social development. The award was presented to Ed by the Provincial People's Government at a ceremony in September. Ed has been Visiting Professor at the Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Jiangsu, since 2012, where his research into fossil insects has led to the publication of many papers with colleagues at the Institute. He has studied and undertaken fieldwork on mainly British fossil insects since the 1970s, and his work at Nanjing has allowed him to explore the links between the English Wealden and exceptionally preserved, Lower Cretaceous Chinese fossil insect faunas. The provincial government in Liaoning has recently helped found a new palaeontological museum there, and a new amber inclusions museum is anticipated along the Yangtze.

Peter Austen Wealden News

Researches on field

From Vesna Klokočovnik and Dušan Devetak

Field work in Serbia 2015

After four amazing Balkan Neuropterological Expeditions (2011-2014) organized by zoologists from the Department of Biology University of Maribor, this year Serbia was planned. From 21st till 28th June a field trip took place in central and south Serbia.



Enjoying a pleasant time in Serbia. From left to right: Franc Janžekovič, Predrag N. Jakšić, Dušan Devetak and Ljubiša B. Đorđević (Photo: V. Klokočovnik).

We travelled from Pirot to Niš, and afterwards to our final destination, the Tara National Park, where we stayed for four days at the hotel Jezero, which is located just beside the Perućac Lake. Niš is the third largest city in Serbia, well known from the period of Turkish occupation. The most famous monument from that period is the Skull Tower composed largely of human skulls.



The Skull Tower (Cele kula) in Niš (Photo: D. Devetak)

In Niš, our colleague Predrag N. Jakšić welcomed us at the Faculty of Sciences and Mathematics, University of Niš, where Dušan Devetak held a lecture on neuropterans for the students of the Faculty. Afterwards we enjoyed a pleasant company of Predrag Jakšić and his college Ljubiša B. Đorđević in one of the traditional Serbian restaurant.



Participants of the expedition. From left to right: Franc Janžekovič, Vesna Klokočovnik, Jan Podlesnik, Dušan Devetak and Tina Klenovšek (Photo: V. Klokočovnik).

The landscape types and habitats in Serbia are extremely diverse. In the country one can explore various ecosystems, from the semidesert habitats along the Danube river in the north to forests and gorges in central and south Serbia. Despite of the fact that this year the temperature in June was much lower than usual, we collected relatively great number of neuropterans with a few new species for this neuropterologically neglected country.



Libelloides macaronius (Photo: V. Klokočovnik)

Among others, spongillaflies and a few brown lacewing species were recorded for the first time for the country. Material has not yet been identified; therefore we expect a few other interesting findings.



Lake Perućac in the Tara National Park, which lies at the border with Bosnia and Hercegovina. The lake was created by damming the river Drina (Photo: V. Klokočovnik).

Once again, it was an interesting field work. Serbia has unique cultural and landscape characteristics, which fits in the Balkan





Serbian landscapes (Photos: V. Klokočovnik).

Peninsula and definitely, this was not our last time there.

From Horst & Ulrike Aspöck

Expedition to Panguana (Peru)

In May 2015 a biological expedition was carried out around the famous research station in the primary rainforest of Panguana (9° 36' 49,3" S, 74° 56' 8.2" W, 260m). This station was founded by the German biologists Hans-Wilhelm and Maria Koepcke in 1968 and later continued by their daughter, Juliane (today Dr. Juliane Diller), deputy director of the Zoologische Staatssammlung München (Bavaria). We were invited by her and her husband, Erich Diller, to spend about three weeks at the station to study Neuropterida of this region. These were wonderful days in a really untouched primary tropical forest, which can only be reached by boat after one hour on a romantic, but sometimes dangerous river in the tropical forest. Here are a few photographs of this unforgettable expedition.



Erich Diller (left) putting up a Malaise trap and Ulrike Aspöck. Panguana, 2 May 2015. (Photo archive H. & U. Aspöck.)



Horst Aspöck at the Malaise trap in the tropical forest. Panguana, 2 May 2015. (Photo archive H. & U. Aspöck.)



Julio Monzon (left) a Peruvian lepidopterologist, studying the Arctiinae of Panguana, and Horst Aspöck. He was extremely helpful in putting up and checking the light traps for Neuropterida. Panguana, 2 May 2015. (Photo archive H. & U. Aspöck.)



Ulrike Aspöck at the light trap. Panguana, 2 May 2015. (Photo archive H. & U. Aspöck.)



Horst Aspöck looking for Sisyridae. Panguana, 3 May 2015. (Photo archive H. & U. Aspöck.)



Ulrike Aspöck collecting Coniopterygidae. Panguana, 4 May 2015. (Photo archive H. & U. Aspöck.)



From left to right, sitting: Günter Gerlach, Rita Mühlbauer, Ulrike Aspöck, Horst Aspöck. From left to right, standing: Erich Diller, Miriam Steinherr, Juliane Diller, Anna Richter, Corina Gerlach, Franz Wachtel, Melanie Szameitat, Stefan Friedrich, Frank Glaw, Miriam Göbel, Annika Metzner. Panguana, 8 May 2015. (Photo archive H. & U. Aspöck.)



Juliane Diller, head of the biological station of Panguana. When she was 17 years old, on 24 December 1971 she survived a plane crash after falling from an altitude of 3000m into the tropical forest of the Andes. She was the only survivor of this airplane crash, and for eleven days she wandered through the tropical forest and swam in the river until she was rescued by indigenous forest worker. Later she studied biology, got her PhD-degree and dedicated a great part of her time to the research station of Panguana. Panguana, 9 May 2015. (Photo archive H. & U. Aspöck.)



Juliane Diller and Carlos Vásquez Módena (called "Moro") who is the good soul of the research station. Panguana, 9 May 2015. (Photo archive H. & U. Aspöck.)



Corydalidae (here a female) are frequent in Panguana. 12 May 2015. (Photo archive H. & U. Aspöck.)



Ulrike and Horst Aspöck looking for Corydalidae, but finding an alligator. Panguana, 12 May 2015. (Photo archive H. & U. Aspöck.)



Ulrike and Horst Aspöck in a boat on the Pachitea. Panguana, 13 May 2015. (Photo archive H. & U. Aspöck.)



A male of Corydalidae with its spectacular mandibles. Panguana,

15 May 2015. (Photo archive H. & U. Aspöck.)



The research station of Panguana with its perfect harmony between humans and animals. Panguana, 15 May 2015. (Photo archive H. & U. Aspöck.)



Ulrike Aspöck in the field laboratory. Panguana, 17 May 2015. (Photo archive H. & U. Aspöck.)



The big kapok tree, the "emblem" of the research station. Panguana, 17 May 2015. (Photo archive H. & U. Aspöck.)

Fantastic bestiary and funny things

From Victor Monserrat

...antlion attracted by neuropterological literature...



From Facebook

NotE: other "mineral lacewing" (see LN20!



handmade by Maurizio La Rocca 2015

Nouvelles frontières

Cristiano L. V. Pires (PhD) Universidade Pedagogica Faculdade de Ciencias Naturais e Matematica Departamento de Biologia Av. De Moçambique 6, km. 1, Maputo. Tel. 258-846551745



I am Assistant Professor at the Pedagogical University in Maputo. I work on different matters of animal behavior especially on the ant lion behavior. I work on ant lion behavior since 1997 (University of Rostock in Germany). During this time (1997 - 2015) I studied different aspects of lion larvae behavior. ant including the chronobiology of pit construction by Euroleon nostras. At the moment I analyze comparatively the bioenergetics, chronobiology, ecology and pit construction behavior of two populations of ant lion larvae (non nominandum), consisting the one of the sit-and-wait predators (obligatory pit fall builders), and the other is a facultative pit construction species. While the first one (sit-andwait) can only move reward and capture the prey only by the mean of a pit fall, the facultative pit constructors can move both reward and forward, and can capture their prey both as sit-and-wait, and as active predators as well.

Social meetings

From Horst & Ulrike Aspöck

Pebble stones from the 15th Meeting of the German-speaking Neuropterologists, Schwanberg 17–19 April 2015

The traditional annual Meeting of the Germanspeaking Neuropterologists took again place in the castle of Schwanberg near Würzburg (Germany, Bavaria). It was a particularly tense event with 16 participants and 10 presentations.



Axel Gruppe (left), the organiser of the Meetings of the Germanspeaking Neuropterologists together with Ulrike Aspöck and Horst Aspöck. Schwanberg, 17 April 2015. (Photo archive H. & U. Aspöck.)



Michael Ohl (right) with a copy of his just published outstanding book on the art of naming organisms ("Die Kunst der Benennung"). This book is warmly recommended to everybody interested in nomenclature and philosophy of taxonomy, who can read German. It contains many exciting stories. Left to him his 13-year-old son, Mattes, who is intensively interested in biology and probably the youngest arachnologist worldwide. Schwanberg, 17 April 2015. (Photo archive H. & U. Aspöck.)



From left to right: Axel Gruppe, Florian Weihrauch, Horst Aspöck, Ulrike Aspöck. We were discussing the possibility of organising the International Symposium on Neuropterology by F. Weihrauch and A. Gruppe in Bavaria and proposed this option to the present president of IAN, Michael Ohl, who accepted and made a successful proposal at the General Assembly in Mexico City in May 2015. Schwanberg, 17 April 2015. (Photo archive H. & U. Aspöck.)



Ulrike Aspöck presenting a lecture on the recently published paper by the 1KITE group on "Phylogenomics resolves the timing and pattern of insect evolution". Schwanberg, 18 April 2015. (Photo archive H. & U. Aspöck.)



The participants of the 15th Meeting of German-speaking Neuropterologists. Schwanberg, 18 April 2015. (Photo archive H. & U. Aspöck.)



Discussion in the lecture room. From left to right: Horst Aspöck,

Andreas Werno, Oliver Schmitz and his wife, Florian Weihrauch.

Abstracts (partly extended) of these will be published in the DGaaE-Nachrichten (Journal of the German Society of general and applied Entomology) at the end of this year. Here are a few photographs which reflect the scientific activity and the harmonic atmosphere.

From Horst & Ulrike Aspöck

1KITE Meeting in Vienna and 7th Dresden Meeting on Insect Phylogeny

On 21 and 22 September a meeting of the 1KITE scientific community took place in Vienna in the Department of Botany and Biodiversity Research.

Here are a few photographs of participants and particularly people of the "subgroup Neuropterida".



Ulrike Aspöck and Karl Kjer (Davis, California, USA), members of the subgroup Neuropterida, at the 1KITE Meeting. Vienna, 21 September 2015. (Photo archive H. & U. Aspöck.)



Jessica L. Ware (Nevark, USA), Horst Aspöck and Rolf Georg Beutel (Jena, Germany), also a member of the subgroup Neuropterida. Vienna, 21 September 2015. (Photo archive H. & U. Aspöck.)



Bernhard Misof (Bonn, Germany) (left), the leading authority on the molecular biology in the subgroup Neuropterida, and Horst Aspöck. Vienna, 21 September 2015. (Photo archive H. & U. Aspöck.)



Carola Greve (Bonn, Germany) and Nikola Szucsich (Vienna, Austria). He is responsible for the Austrian Barcoding of Organisms (project ABOL). Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



Ulrike Aspöck giving a presentation on Neuropterida. Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Rolf Georg Beutel (Jena, Germany), Bernhard Misof (Bonn. Gernany), Ulrike Aspöck, Horst Aspöck discussing the project of the 1KITE subgroup Neuropterida. Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Ulrike Aspöck, Karl Kjer (Davis, California, USA), and Rolf G. Beutel (Jena, Germany), discussing future projects on Neuropterida. Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



The participants of the 1KITE Meeting. Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Daniela Bartel, Nikola Szucsich (both Vienna, Austria) and Bernhard Misof (Bonn, Germany). Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)



Karl Kjer (Davis, California, USA) (left) and Horst Aspöck. Vienna, 22 September 2015. (Photo archive H. & U. Aspöck.)

Bernhard Misof – he is the initiator of this huge project – gave an overview of the present state, which was followed by several lectures on the highly sophisticated analysis of an enormous amount of data to uncover the evolution and phylogeny of the Hexapoda. First trees were presented, but they are still preliminary. Ulrike Aspöck, Horst Aspöck and Bernhard Misof presented an overview on the phylogeny of the Neuropterida.

Most of the participants of the 1KITE Meeting in Vienna travelled then to Dresden to the 7th Meeting on Insect Phylogeny, among them also the scientists involved in the Neuropterida subgroup. Many presentations were given on the phylogeny of various insect orders, however, the Neuropterida tree was not yet ready for presentation. Ulrike gave a short communication on the difficulty to locate the systematic position of the Myrmeleontid genus Pseudimares KIMMINS (Ulrike Aspöck, Horst Aspöck & Elisabeth Haring: *Stilbopteryx* meets *Pseudimares* – a challenging hypothesis). Susanne Randolf showed a poster on head anatomy of Neuropterida.



From left to right: Horst Aspöck, Ulrike Aspöck and Brian M. Wiegmann (Raleigh, North Carolina, USA), a leading authority in insect phylogeny. Dresden, 24 September 2015. (Photo archive H. & U. Aspöck.)



Olivier Béthoux (Paris, France), famous for his studies on wing venation of insects, and Ulrike Aspöck. Dresden, 25 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Michael (Theo) Schmitt (Greifswald, Germany), author of a fundamental biography on Willi Hennig, Susanne Randolf and Ulrike Aspöck. Dresden, 25 September 2015. (Photo archive H. & U. Aspöck.)



Harald Letsch (Vienna, Austria) presenting a lecture on Odonata. He was one of the organisers of the 1KITE Meeting in Vienna. Dresden, 25 September 2015. (Photo archive H. & U. Aspöck.)



A peek into the overcrowded lecture hall demonstrating the great interest in this symposium. Dresden, 25 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Susanne Randolf, Helena Shaverdo (Vienna,

Austria) and Horst Aspöck. Dresden, 25 September 2015. (Photo archive H. & U. Aspöck.)



The participants of the 7th Dresden Meeting on Insect Phylogeny in the yard of the Japanese Palais. Dresden, 26 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Horst Aspöck, Christiane Weihrauch (Riverside, California, USA), editor of Systematic Entomology, and Alex Blanke (Hull, UK). Dresden, 26 September 2015. (Photo archive H. & U. Aspöck.)



Ralph Peters (Bonn, Germany), a member of the subgroup Neuropterida, and Ulrike Aspöck. Dresden, 27 September 2015. (Photo archive H. & U. Aspöck.)



: Rudolf Meier (Singapore) and Horst Aspöck. Dresden, 27 September 2015. (Photo archive H. & U. Aspöck.)



From left to right: Ulrike Aspöck, Alex Blanke (Hull, UK) and Ryuichiro Machida (Tskuba, Japan). Dresden, 27 September 2015. (Photo archive H. & U. Aspöck.)

Here are a few photographs of this outstanding symposium, which is always a great international event and an important meeting of entomologists working on the physiology and evolution of insects.



peekaboo!

Recent Literature on the Neuropterida (2015)

Organized by Agostino Letardi with the support of John D. Oswald and BotN project (<u>http://lacewing.tamu.edu/bibliography/</u>)

- Acevedo, F.; Monserrat, V. J. 2015. SEM study of the larvae of *Tricholeon relictus* Hölzel & Monserrat, 2002 (Neuroptera, Myrmeleontidae). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 34.
- Acevedo, F.; Monserrat, V. J. 2015. Setae and sensilla of the *Myrmeleon* Linnaeus, 1767 larvae present in the Iberian Peninsula. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 35.
- Ardila-Camacho, A.; Galindo, A.; Molina, J. 2015. Developmental changes in the morphology of the stemmata in larvae of the dobsonfly *Cordydalus armatus* Hagen, 1861 (Megaloptera, Corydalidae). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 29.
- Aspöck, U.; Liu, X.-y.; Aspöck, H. 2015. The Dilaridae of the Balkan Peninsula and of Anatolia (Insecta, Neuropterida, Neuroptera). *Deutsche Entomologische Zeitschrift, Berlin* 62(2): 123-135. doi: 10.3897/dez.62.5199 [r#15801].
- Azevedo de, C. A. S.; Hamada, N. 2015. Description of the larvae of *Protosialis flammata* Penny (Insecta, Megaloptera) with notes on bionomics. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 32-33.
- Bakkes, D. K.; Snyman, L. P.; Pirk, C. W.W.; Sole, C. L. 2015. Performance of pairwise shape dissimilarity morphometrics on nonmammalian taxa (Insecta: Neuroptera: Mantispidae). *Journal* of Morphology 1-13. doi: 10.1002/jmor.20436 [r#15824].
- Ballestreros-Barrera, C.; Contreras-Ramos, A.; Mares-Guzman, F.; Zarate-Hernandez, M. d. R. 2015. Species of Megaloptera in Mexico: bioclimatic profiles and potential distribution richness. Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico: 41.
- Вауапоv, N. G.; Makeev, I. S.; Frolova, E. A.; Kravchenko, A. A. 2015. Планткто- и бентофауна водных объектов мордовского заповедника и прилегающих территорий. *Труды Мордовского Государственного Природного* Заповедника имени П.Г. Смидовича [=Trudy Mordovskogo Gosudarstvennogo Prirodnogo Zapovednika imeni P. G. Smidovicha] 14:35-60 [r#15775].
- Bowles, D.; Contreras-Ramos, A. 2015. First record of the family Sialidae (Megaloptera) from Thailand and description of the female and larva of *Indosialis bannaensis*. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 31.
- Califre Martins, C.; Ardila-Camacho, A. 2015. Osmylidae (Neuroptera) of South America. Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico: 39.
- Califre Martins, C.; de Souza Amorim, D. 2015. Phylogeny of *Ceraeochrysa* Adams, 1982 (Neuroptera, Chrysopidae). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 7.
- Califre Martins, C.; de Souza Amorim, D. 2015. Homology and nomenclature of Chrysopidae (Neuroptera) wing venation. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 38.
- Canard, M.; Jacquemin, G. ; Vallet, A. 2015. Nuées de Chrysopes (Neuropterida Chrysopidae). *Entomologiste* 71(4): 261-264. [r#15788].

- Cancino-López, R. J.; Contreras-Ramos, A. 2015. Current knowledge and distribution of Hemerobiidae (Neuroptera) in Mexico with notes on a possible undescribed species of *Notiobiella*. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 28.
- Choi, M.-Y.; Mochizuki, A.; Henry, C. S. 2015. The green lacewing, Chrysoperla nipponensis in nature and in an insectary population in Korea: Song types and mitochondrial COI haplotypes. *Journal of Asia-Pacific Entomology* 18: 151-155. doi: 10.1016/j.aspen.2014.12.009 [r#15802].
- Delisle, J.F.: Garcia, P.; Morgado, L. N.; Ventura, M. A. 2015. Sublethal effects of the ingestion of Imidacloprid and Detlamethrin by *Chrysoperla agilis* (Neuroptera: Chrysopidae). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 24.
- Demarr, K. 2015. Distribution of New World Megaloptera holdings of the National Museum of Natural History (Smithsonian Institution). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 32-42.
- Devetak, D.; Arnett, A. E. 2015. Preference of antlion and wormlion larvae (Neuroptera: Myrmeleontidae; Diptera: Vermileonidae) for substrates according to substrate particle sizes. *European Journal of Entomology* 112(3): 500-509. [r#15798].
- Devetak, D.; Jakšič, P.; Koren, T.; Ivajnšič, D. 2015. Two sibling Green Lacewing species, *Chrysopa pallens* and *Chrysopa gibeauxi* (Insecta: Neuroptera: Chrysopidae) in Slovenia and Western Balkan countries. Annales 25(1): 47-54. [r#15799].
- Garabito-Figueroa, C.; Sarmiento-Cordero, M.; Rodriguez-Velez, B. 2015. Chrysopidae from the state of Colima, Mexico. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 36.
- Garfias-Lozano, G.; Ramírez-Ponce, A.; Contreras-Ramos, A. 2015. Sexual dimorphism and allometric growth of the postocular flange in *Platyneuromus* (Megaloptera, Corydalidae). *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 37.
- Giacomino, M. 2015. Contribution a la connaissance des Neuroptera des Antilles françaises: I. Les Myrmeleontinae de Guadeloupe (Neuroptera Myrmeleontidae). *Entomologiste* 71:153-156 [r#15793].
- Hamada, N.; Cavalcante Do Nascimiento, J. M.; Pes, A. M. O. 2015. New distributional records of Sisyridae (Neuroptera) in Brazil with bionomic notes on *Climacia townesi* Parfin & Gurney. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 40.
- Huang, D.; Azar, D.; Cai, C.; Garrouste. R.; Nel, A. 2015. The first Mesozoic pleasing lacewing (Neuroptera: Dilaridae). *Cretaceous Research* 56: 274-277. doi: 10.1016/j.cretres.2015.06.001 [r#15804].
- Jiang, Y.; Zhou, Y.; Wang, Y.; Yue, L.; Yan, Y.; Wang, M.-q.; Liu, X.-y. 2015. Complete mithocondrial genomes of two Oriental dobsonflies, Neoneuromus tonkinensis (van del Weele) and Nevromus exterior (Navás) (Megaloptera: Corydalidae), and phylogenetic implication of Corydalinae. *Zootaxa* 3964(1): 44-62. [r#15805].
- Jepson, J.E. 2015. A review of the current state of knowledge of fossil Mantispidae (Insecta: Neuroptera). *Zootaxa* 3964(4): 419-432. doi: 10.11646/zootaxa.3964.4.2 [r#15774].
- Jepson, J.E.: Ohl, M. 2015. Fossil Mantispidae: Current knowledge, new specimens, and future research. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 23.
- Jones, J.R. 2015. First large scale phylogeny of Myrmeleontiformia, with a focus on Ascalaphidae. Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico: 8.

- Jones, V.P.; Horton, D. R.; Mills, N. J.; Unruh, T. R.; Baker, C. C.; Melton, T. D.; Milickzy, E.; Steffan, S. A.; Shearer, P. W.; Amarasekare, K. G. 2015. Evaluating plant volatiles for monitoring natural enemies in apple, pear and walnut orchards. *Biological Control* doi: 10.1016/j.biocontrol.2015.03.009 [r#15806].
- Khramov, A. V.; Liu, Q.; Zhang, H. C. 2015. Jurassic lacewing faunas of Asia. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 20-21.
- Kjer, K. M. et al. 2015. Response to Comment on "Phylogenomics resolves the timing and pattern of insect evolution". *Science* 349 (6247): 487-c.
- Kirschey, L.; Ohl, M. 2015. The phylogeny of the Nemopterinae (Neuroptera, Nemopteridae) based on morphological characters. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 10.
- Koczor, S.; Szentkiralyi, F.; Pickett, J.A.; Birkett, M.A.; Toth, M. 2015. Aphid sex pheromone compounds interfere with attraction of common green lacewings to floral bait. *Journal of Chemical Ecology* :1-7. doi: 10.1007/s10886-015-0585-7 [r#15807].
- Letardi, A.; Da Ponte, N.B.; Borges, P. A.V. 2015. *Sympherobius* Banks, 1904, a new hemerobid genus for the Azorean archipelago (Neuroptera: Hemerobiidae). *Arquivos Entomoloxicos* 14: 3-5. [r#15808].
- Liu, X.-y.; Hayashi, F.; Lavine, L.C.; Yang, D. 2015. Is diversification in male reproductive traits driven by evolutionary trade-offs between weapons and nuptial gifts? *Proceedings of the Royal Society B* 282: 2015.0247 (9pp.). http://dx.doi.org/10.1098/rspb.2015.0247
- Liu, X.-y.; Hayashi, F.; Winterton, S. L.; Price, B.; Aspöck, H.; Aspöck, U.; Yang, D. 2015. Phylogeny and biogeography of Megaloptera. *Abstract book, 12th Int. Symp. on Neuropterology, Mexico City, Mexico*: 5-6.
- Liu, X.-y.; Hayashi, F.; Yang, D. 2015. Systematics and biogeography of the dobsonfly genus *Neurhermes* Navás (Megaloptera: Corydalidae: Corydalinae). *Arthropod Systematics & Phylogeny* 73(1): 41-63. [r#15810].
- Liu, X.-y.; Hayashi, F.; Yang, D. 2015. New species of alderfly genus *Sialis* (Megaloptera: Sialidae) from China and Vietnam, with a key to species of *Sialis* from Asia. *Entomological Science* 18: 452-460. doi: 10.1111/ens.12142
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Picture of the semester

peekaboo*Mucroberotha vesicaria* Tjeder. Mervyn and Sheila Mansell, Ding Johnson, Trish Hartzell and Peter Duelli collected it at the lights in March 2015 at Tswalu in the South African Kalahari. Foto Peter Duelli

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