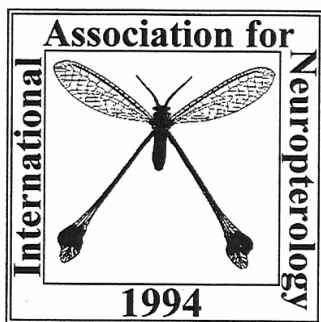
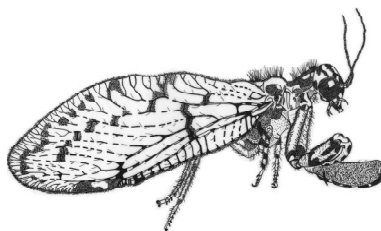




Lacewing News



NEWSLETTER OF THE INTERNATIONAL ASSOCIATION OF NEUROPTEROLOGY

No. 16

Spring 2013

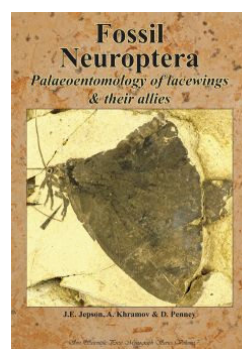
Presentation

Hi all! Here's the 16th issue of *Lacewing News*. Leitmotiv of this issue is "old, fond memories": so, a lot of photos and dear moments! I hope you will enjoy them, Thank to all colleagues who send photos, messages and contributions. Please, don't forget this is not a "formal" gazette, nor an official instruments of IAN, but only a "open space" to disseminate information, cues, jokes through the neuropterological community. So don't hesitate to send me any suggestions, ideas, proposal, information, for the next issue! 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 Oehl (Michael.Oehl@mfn-berlin.de), who is also the organizer of next XII International Symposium on Neuropterology (Berlin 2014). Ciao!



From David Penney

THE FOSSIL NEUROPTERA BOOK GAUNTLET HAS BEEN PICKED UP



In *Lacewing News* 15 I proposed the idea of a book on Fossil Neuroptera. The gauntlet was picked up and this work is now in progress as part of the Siri Scientific Press Monograph Series (email for ordering information or visit <http://www.siriscientificpress.co.uk>), with an expected publication date of 2014. The authors will be James E. Jepson (currently National Museum of Wales), Alexander Khranov (Paleontological Institute Moscow) and David Penney (University of Manchester). The draft cover shows a particularly nice example of the extinct family Kalligrammatidae. We already have lots of nice fossil images (both amber and rock) for this volume, but if any of you have access to well preserved fossils or hold the copyright of such images and would like to see them published in this volume, then we would be very happy to receive high resolution images in jpeg format. We do not have funding for the

purchase of these images and hope that any collection curators (from institutions that request payment for images) reading this request will appreciate the academic nature of this monograph that will be published in a short print run of not more than 500 copies (and so should hopefully fall within the remit of fair academic usage reproduction anyway). The more images we have of unique specimens the greater will be the value of the book to its readership. All will be fully acknowledged and the originator will retain their copyright. Images can be emailed to david.penney@manchester.ac.uk
Many thanks in advance.

Best regards, Dave Penney

Who is Who in Neuropterology

Victor A. Krivokhatsky

I was born in January 20, 1954 in Petrozavodsk, Russia, occasionally. Then permanently, I grew in Leningrad / St.Petersburg in the family of an atomic physicist. My grand mother Valentina P. Romanova has been an entomologist in Rostov-on-Don and she trained me to insect collecting.



Collecting insects, 10 years old

So that his sole award decoration was the gold medal of Exhibition of advancement in National economy in Moscow for the collection "Sexual dimorphism in insects" when I was 14 years old. Then in Leningrad University I studied entomology and prepared diploma project on electric activity of nervous system of Insects without enthusiasms and any publications. So that after graduate the University, I started to work with young naturalists, but at the first chance, I went to the Natura - Badghiz Natural Reserve in Turkmenia (now Turkmenistan) as a forest-worker in pistachio plantation. In free time I had a right to scientific researches with insects.



Collecting insects in Badghiz, 1978

In the neighbouring Repetek Reserve I start to work with the program "Insects from the rodents burrows in the desert" (1982, 1985b, 1994b) and prepared the first small book with check list of insects of Repetek (1985a).



Collecting insects in rodent burrow in Karakum Desert, 1982

In next period the Natural Reserve of Leningrad University "Forest on the Vorsla" became reorganized (Krivokhatsky, 1989), and University invite me to the scientific branch, and since 1985 I become leader of the Reserve. In that time between Alexander Zakharenko (Charkov) and me there were less than 100 km., and we could organize common expeditions and write conjoint papers; among them, the catalogue of Neuroptera from the European part of the former USSR (Zakharenko, Krivokhatsky, 1993). In that period I included all my Neuroptera collection to the collection of Zoological Institute in Peterburg. Since 1991 I was Senior (since 1999 - Leading) Research Scientist of the Laboratory of Introduction of effective living organisms of Zoological Institute of Russian Academy of Sciences in St. Petersburg and from 2002 till now I hold the rank of Leading Research Scientist of the Laboratory of Insects Systematics. My thesis on Doctor of Science in Biology (1999) was devoted to the systematics and biogeography of the palaearctic antlions.



Members of expedition to the Volga Region, 2003

Last 10 years the time runs too slow for me: in 2003 and 2004 I organized usual expeditions to the Volga Region and between them my aorta was thrombed and operated; in 2005 I worked with collections of Neuroptera in Museum and Institut Zoologii Polzka Akademia Nauk in Warszawa and in Upper Silesian Museum, Bytom, than attended house of Linne in Uppsala and in 2006 I visited the Chinese Agricultural University in Beijing with antlion project, and than has a part in expedition along Chujsky Tract in Altaj. In 2007 I survived cerebral infarction, but I was able to organized the XIII congress of Russian entomological Society from the bed.



Visit to the privat garden of Linne, 2005

After apoplexy he works in red listing, reviewing in entomology and preferably with finishing old projects in myrmeleontology (2007a,b).



Rehabilitation during mushrooming, 2009

Mostly my efforts were apply for 20-years project - Russian fauna of antlions (2011). In 2012 I was voted in congress as an honorary member of Russian entomological Society.

I'm very sorry that my illness became to be reason that many projects conjoint with class specialists in Neuropterology have been postponed. In according with convalescence my projects will renewed, and, as I promised, my personal page with list and copies of publication and ZINsecta will be renewed too!



Presentation: Krivokhatsky V.A., Ovtshinnikova O.G. Provinciality – the main principle of biogeography in: the conference "Fundamental problems of entomology in XXI century" in Petergof, 2011

N.of E.: Here some of the web resources by Victor

<http://www.zin.ru/Animalia/Coleoptera/eng/krivohat.htm>
<http://www.zin.ru/Animalia/Coleoptera/eng/krivbibl.htm>
<http://www.zin.ru/Animalia/Coleoptera/rus/krivhpdf.htm>
<http://www.zin.ru/projects/ZInsecta/eng/myrgen1.asp>

Nouvelles frontières

Anastasia Kaversina

e-mail: nkaverzina1986@rambler.ru



Anastasia Kaversina in the collecting trip in Krasnoyarsk Krai, Kansk area, steppe

I have started my work with Neuropterans as a student for my diploma when I was studying in Irkutsk State University at the Faculty of Biology and Soil Studies. When I graduated from the university, I arrived in postgraduate study of the Siberian Institute of Physiology and Biochemistry of Plants under the direction of the professor Andrey Sergeyevich Pleshanov. Certainly, first of all it is necessary to tell something about my tutor. He has worked all life at the Siberian Institute of Physiology and Biochemistry of Plants. Since the childhood, he has fond of an entomology, and in student's years he got acquainted with Neuroptera and started to bring together actively with them in Conbaikal Region.



Andrey Sergeyevich Pleshanov

In 1974 A.S. Pleshanov published the first survey faunistic work about Neuroptera of Eastern Siberia. In the subsequent works he also paid considerable attention to studying not only faunae, but also ecology, phenology and biology of Neuroptera, occupying natural ecosystems. A.S. Pleshanov made the significant contribution to research of Neuroptera insects in Siberia.

When five years ago I came to him with a request to be my tutor, he agreed. I asked to give me work on useful or harmful insects. But he became so inspired talking about the Neuroptera, about the first meeting with *Libelloides sibiricus* (Eversmann, 1850) and about green lacewings, that inspired me. It appeared that earlier I didn't meet almost Neuroptera. A.S. Pleshanov allowed me to work with a collection being in the Siberian Institute of Physiology and Biochemistry of Plants. He was

the person very widely-read, interesting, always helped another specialists with their scientific undertakings. All his colleagues, friends and pupils, knowing about his love to the Neuroptera brought them for it from all Siberia and the Far East. Unfortunately in 2011 he abandoned us, till last days we communicated with him and he gave advices and manuals.

The last five years I have been actively collected Neuroptera of the Baikal region, but special attention gave Neuroptera to the flat territory of the basin of the Angara River. Last year I successfully finished postgraduate study. Now I work at the Siberian Institute of Physiology and Biochemistry of Plants and plan to continue work on fauna and ecology Neuroptera of the Baikal region. Now I'm in cooperation with Victor Krivokhatsky in the base of Zoological Institute, St.Petersburg, under supporting of the Russian Fund of Fundamental Researches.



Anastasia Kaversina in the collection of Zoological Institute, St.Petersburg, 2012

Social meetings

From Carmen Reguilón

N.of E.: On October 4th 2012, Carmen sent me, as a replay to the invoice of Lacewing News n.15, a short message with some photos. Here, her short note in the original language, because Spanish language..... *me gusta mucho* ☺!

Estimado Agostino: le estoy enviando en adjunto la foto con los nombres de las personas que están. Yo estoy en las tres primeras fotos y también en la foto en conjunto. Le comento que hace dos años que presente mi tesis de



C. Reguilón- frutilla- Sur del Pais

doctorado y estoy dirigiendo un Proyecto de investigación en la Fundación Miguel Lillo llamado: "Neurópteros del Norte Argentino: Biología y Capacidad Depredadora Aplicada a Cultivos de Importancia Agroeconómica". Estamos trabajando en diversos cultivos como frutas finas (fresa, frambuesa, Boysenberries, arándanos); Cítricos (Limón, Naranja); Pimiento en invernáculo, etc.



C. Reguilón- Quinoa- Amaicha- Tucumán

Estoy dirigiendo una Tesis de Maestrado: Marcela Correa; una Tesina de grado: Gabriela Flores y dos pasantías de investigación: Alicia Yapur y Emilio Valdez. Todos los estudios los estamos desarrollando en Argentina, en la provincia de Tucumán. Mis últimos trabajos publicados fueron:

-- Carmen Reguilón. Morfología de los estados inmaduros y ciclo biológico de Unga binaria (Neuroptera: Chrysopidae). Acta Zoológica Lilloana 54(1-2): 78-86, 2010.

-- Carmen Reguilón & Jose F. Heredia.

Morfología larval y datos biológicos de *Leucochrysa* (Nodita) vignisi (Neuroptera: Chrysopidae). *Acta Zoológica Lilloana* 55(2). 2011.



Foto con los Tauber y Gilberto

La foto grupal fue tomada cuando nos visitaron los especialistas: el matrimonio Tauber de Cornell, EE.UU. y Gilberto Albuquerque de Brasil. En breve le estaré enviando mas fotos, de mi equipo de trabajo para que tu puedas elegir la que quieras compartir. Saludos cordiales, Carmen.

From Atilano Contreras-Ramos



From left to right, Dr. Martín Zurita (co-instructor of the Insect Systematics course), Griselda García (grad student), Dr. Sosa-Duque, Dr. Contreras-Ramos, Mariza Sarmiento (grad student), Magali Luna (undergrad student), and Roberto López (grad student).

Dr. Francisco José Sosa-Duque from Universidad Centroccidental "Lisandro Alvarado", Tarabana, Venezuela, expert on Neotropical Chrysopidae, visited the laboratory of Dr. Atilano Contreras-Ramos, Mexico City, to

study the green lacewing collection of Instituto de Biología-UNAM (Universidad Nacional Autónoma de México), from the 9th through the 22nd of March, 2013. He also taught a workshop on chrysopid identification to students of Dr. Contreras' lab, and lectured in a course of Insect Systematics to graduate students of UNAM. Closer links for future collaborations and additional training of students are expected.

From David E. Bowles and Atilano Contreras-Ramos

David E. Bowles and Atilano Contreras-Ramos organized and moderated a symposium on the Neuropterida at the Annual Meeting of the Entomological Society of America, 11-14 November 2012, Knoxville, Tennessee, U.S.A. The symposium was titled *Americas Neuropterists Meeting*. Ten presentations were scheduled to be presented, but Kady Tauber and Brigida de Souza were unable to attend. The presentations given at the symposium and author contact information follow:

- * **Mantispids (Neuroptera: Mantispidae) of the Interior Highlands of the United States.** Daniel Reynoso-Velasco, drnvd@mail.missouri.edu, Enns Entomology Museum, Division of Plant Sciences, University of Missouri, Columbia, MO, David E. Bowles, david_bowles@nps.gov, National Park Service, Republic, MO
- * **Studying Coniopterygidae (Neuroptera) using lessons from the Sternorrhyncha (Hemiptera).** Gary L. Miller, gary.miller@ars.usda.gov, USDA-ARS, Beltsville, MD.
- * **Fossil Neuropterida: a short look at a long history.** John D. Oswald, Department of Entomology, joswald@ag.tamu.edu, Texas A&M University, College Station, TX.
- * **Developments in the systematics of owlflies (Ascalaphidae).** Joshua R. Jones, doc.jones3000@tamu.edu, Texas A&M University, College Station, TX.
- * **A plan for a phylogenetic analyses for antlions (Neuroptera: Myrmeleontidae).** Renato Machado, rijpmachado@neo.tamu.edu, Department of Entomology, Texas A&M University, College Station, TX.
- * **Revision of the antlion genus *Paranthaclisis*, including a morphological and molecular based phylogeny of the group.** Ben Diehl, b-diehl@neo.tamu.edu, Texas A&M University, College Station, TX.
- * **Coniopterygidae of dry forests of the Mexican Pacific.** Mariza A. Sarmiento-Cordero, mariza.sarmiento@ibunam2.ibiologia.unam.mx, Atilano Contreras-Ramos, acontreras@ibiologia.unam.mx, Instituto de Biología, UNAM, Mexico.
- * **Ectosymbiotic Chironomidae on Megaloptera from Thailand.** David E. Bowles, david_bowles@nps.gov, US National Park Service, Republic, MO.

The presentations were informative and well received. The symposium was followed by a general discussion session, concluding remarks, and group dinner and social. Approximately twenty people attended the symposium this year. David Bowles and Atilano Contreras-Ramos agreed to organize another symposium for the 2013 Entomological Society of America annual meeting to be held November 17-20 in Austin, Texas, USA. Anyone interested in attending the meeting and giving a presentation in this symposium should contact the organizers.



Front row, left to right: Mike Ferro, John D. Oswald, Daniel Reynoso-Velasco. Back row, left to right: Ben Diehl, Gary L. Miller, Renato Machado, Joshua R. Jones, Atilano Contreras-Ramos, David E. Bowles.

From Axel Gruppe

Announcement and invitation to 13th meeting of the study group "Neuropteren"

The DGaE ("German Society for General and Applied Entomology") organizes the study group "Neuropteren". It is the purpose of the study group to offer a forum for all entomologists who are engaged in Neuropterology by profession or privately in German speaking countries. Every second year, the study group organizes a meeting at Schwanberg castle near Würzburg which is attended by colleagues from Austria, Switzerland and Germany. We also invite speakers to address new and interesting findings related to Neuroptera. Although the language is German, colleagues from other countries are welcome.

Next meeting will take place from 21. to 23. June 2013. If you wish to participate please contact Axel Gruppe.

Dr. Axel Gruppe
Lehrstuhl für Tierökologie
Am Hochanger 13
D 85354 Freising
e-mail: gruppe@wzw.tum.de

From Maria Pappas

The 15th Panhellenic Entomological Congress organized by the Entomological Society of Greece will be taking place on 23-26 October 2013 at the Exhibition and Conference Centre "Apostolos Mardiris" in Nea Karvali (Kavala, Greece). During the congress original research papers covering all branches of basic and applied research of Entomology and Acarology will be presented. Also, topics of general interest on important entomological problems will be discussed.

You are kindly invited you to participate in the forthcoming Panhellenic Entomological Congress and submit an abstract for an oral or poster presentation. Further information regarding registration, submission deadlines, accommodation etc. is available at the following website: <http://www.entsoc.gr/kavala2013/>.

From Janakiraman Poorani

Dear Sir,
I enclose some pictures of *Notiobiella* (Hemerobiidae) - it is an undetermined species feeding on psyllids in Bangalore. I understand immature stages have not been documented so far for *Notiobiella*.

Regards, J Poorani
NBAlI, Bangalore, India poorani@gmail.com



From Joshua R. Jones

Dear colleagues and friends,

Which aerial insect predator is capable of sustained powerful flight, catches and consumes its flying prey while on the wing, and even exhibits mating behaviours while in the air? Hint: It's not a dragonfly...

You probably know the answer, and of course it's a neuropteran: the owlfly!

My research on this convergently derived and biologically spectacular group is ongoing. Here are the latest developments.



(1) Last November at the Entomological Society of America (ESA) annual meeting in Knoxville, Tennessee, I presented my findings of 4 years of fieldwork and taxonomic research on the genus *Ululodes* of the United States and Canada. Among the discoveries are that 7 valid species occur north of Mexico, but some with very narrow distributions, and that *U. mexicanus* (McLachlan) has long been misidentified as *U. arizonensis* Banks. A faunal paper, now in preparation, will provide new species diagnoses, a key to the 7 species, illustrations, distributions, nomenclature and some biological data.

(2) In February at the ESA Southwestern Branch Meetings in Las Cruces, New Mexico I presented the results of my taxonomic revisionary work on the African entire-eyed genus *Allocormodes*. These large owlflies have broad distributions and distinctive wing patterns, but up until now have been poorly known. My revision presents revised diagnoses for the genus and its species, proposes several new species and a new synonymy, and provides distribution data and a complete key to males and females. A manuscript is in preparation.



(3) While researching the genus *Ululodes*, Dr. John Oswald and I discovered several nomenclatural issues regarding the genus-group and genus name, namely improper type species fixation, authorship attribution and date of publication, and a lack of formal gender designation. We propose corrections in a paper being published in the Bulletin of Zoological Nomenclature.



Watch for more!

Joshua R. Jones

Texas A&M University, College Station, TX;

Email: doc.jones3000@tamu.edu

From Miklós Tóth

A new device for collecting lacewing eggs

Common green lacewings (*Chrysoperla carnea* species complex), as widespread representatives of Chrysopidae, are of high economic importance as agents of biological control. This taxon is also available

commercially, adults, larvae and eggs can be purchased from companies rearing natural enemies.

Due to the importance of these species several research groups work on the development of an effective attractant. Recently a ternary blend was found to attract both males and females of common green lacewings more effectively than previously reported compounds. Among the cryptic species both males and females of *C. carnea* s. str., *C. pallida*, and *C. lucasina* were attracted to this bait in field experiments.

Furthermore, eggs were also observed in the vicinity of the baits, which suggested that this combination may help to manipulate lacewing oviposition site choice in favour of biological pest management.



As lacewings are known to prefer hairs and spines of plants for oviposition, artificial surfaces were tested with the ternary bait to see whether numbers of eggs laid can be further increased with appropriate surface characteristics. As it was shown in field studies both the bait and the surface affected numbers of eggs laid. The combination of these stimuli resulted in a lacewing egg concentrating device, which is unique to our knowledge. We believe that this invention may open new perspectives for biological application of common green lacewings. Furthermore it may also contribute to future studies on oviposition behaviour of these marvellous insects.

In case you are interested, further details can be found on the carnea egg concentrator at

<http://csalomontraps.com/4listbylatinname/pdf/fajonkentik/chreggintro.pdf>

Some recent references of our studies:

- Tóth, M., Szentkirályi, F., Vuts, J., Letardi, A., Tabilio, M.R., Jaastad, G., Knudsen, G.K. 2009. Optimization of a phenylacetaldehyde-based attractant for common green lacewings (*Chrysoperla carnea* s.l.). *J. chem. Ecol.* 35:449-458.

- Koczor, S., Szentkirályi, F., Tóth, M. 2012. On possible practical applications of attractants for common green lacewings (*Chrysoperla carnea* species complex). Presentation, IOBC WPRS Pheromones and Other Semiochemicals Conference, October 1-5 2012, Bursa, Turkey.

Sándor Koczor, Ferenc Szentkirályi, Miklós Tóth
Plant Protection Institute, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Pf. 102, H-1525, Hungary

From “the Aspöckidae” ☺



Horst and Ulrike Aspöck, married for fifty years and working together on Neuropterida throughout the same period since April 1963. In fact, exactly half a century ago, in spring 1963, we started to work together on Neuropterida, and a few months later (in November 1963) we married.

We, the Aspöckidae, want to report that we recently glamorized the Neuropterida by our talks presented in the course of three important meetings:

1) 6th Annual meeting of NOBIS Austria (Network of Biological Systematics Austria), Klagenfurt (Carinthia, Austria), 1 Dec. 2012 : “Austrian Biosystematics”. One lecture was dedicated to Raphidioptera:

➤ U. Aspöck & H. Aspöck: Raphidioptera – eine österreichische Erfindung? Österreichs Beitrag zur Erforschung der Kamelhalsfliegen (Insecta: Endopterygota)

[Raphidioptera – an Austrian invention? Austria's contribution to the exploration of Raphidioptera]. Talk given by U.A.

2) BioSyst.EU 2013: "Global Systematics!", Vienna (Austria), 18-22 Feb. 2013.

This monster congress was a combined event of the 2nd BioSyst. EU joint meeting, the 14th Annual Meeting of the Society for Biological Systematics (GfBS) and the 7th Annual Meeting of the Network of Biological Systematics Austria (NOBIS Austria).

The Neuropterida were represented by three talks:

- H. Aspöck & U. Aspöck: Biogeography and systematics: The genesis of the distribution of Raphidioptera in the world. Talk given by H.A.
- U. Aspöck, S. Randolph & D. Zimmermann: Beaded lacewings – a new phylogenetic start-up (Insecta: Neuropterida: Berothidae). Talk given by U.A.
- K. Meusemann, R.S. Peters, M. Petersen, A. Donath, O. Niehuis, C. Mayer, U. Aspöck, H. Aspöck, F. Hünefeld, K.M. Kjer, R.G. Beutel, & B. Misof: Phylogeny of the holometabolous insect orders – new insights from transcriptomes and morphology. Talk given by K. Meusemann. The message concerning Neuropterida: Monophyletic Megaloptera and a sister-group relationship Megaloptera + Neuroptera were corroborated.



3) 51. Bayerischer Entomologentag, München (Germany), 8-9 March 2013.
Invited talk given by U. Aspöck:

- Der spröde Charme der Neuropterida: Feldarbeit & Phylogenie – entkoppelte Extasen [The prudish charm of the Neuropterida: Field-work & phylogeny – uncoupled thrills of ecstasy].

From Roberto A. Pantaleoni



A few days ago, I called Professor Maria Matilde Principi to wish her a Happy Easter. Every 2-3 months I have the pleasure of speaking to her on the phone and I can confess that it is not always me who calls her but often she beats me to it. During our conversations, as well as the usual exchange of personal news, she asks me for news about Neuropterology research in the world and about our colleagues in the field. Despite her age of almost 98 and serious eyesight problems, Professor Principi is still perfectly sound of mind and health. She now lives a quiet, reserved life in her house in Bologna but at the new headquarters of the ex Institute of Entomology "Guido Grandi" there is still a room reserved for her, where she occasionally goes, although more rarely these days, to find out about the latest news in the academic world and in entomological research. The last time I spoke to her, she asked me to send her best wishes to all of the world's Neuropterology community, a request which I was more than happy to satisfy. The attached photo shows Professor Maria Matilde Principi sitting at her desk in the historical headquarters at n.6 Via Filippo Re in Bologna during the second half of the 1980s.

Roberto A. Pantaleoni
Email: pantaleo@uniss.it

Recent Literature on the Neuropterida (2012-2013)

Organized by Agostino Letardi, with the contribution of John Oswald's BotN

- Ábrahám, L. 2012. *Nohoveus vanharteni* sp. n. from Oman (Neuroptera: Myrmeleontidae). *Natura Somogyiensis* 22:57-63 [r#15034]
- Ábrahám, L. 2012. "On the other hand, what is this Eastern aeschnoides?" (Morton 1926) – an undescribed *Palpares* species from the Eastern Mediterranean (Neuroptera: Myrmeleontidae). *Natura Somogyiensis* 22:65-102 [r#15035]
- Ábrahám, L.; Dobosz, R.; Trýzna, M. 2012. A new *Visca* from Madagascar (Neuroptera: Myrmeleontidae). *Natura Somogyiensis* 22:103-110 [r#15016]
- Aistleitner, E.; Hölzel+ H. 2012. Zur Kenntnis der Schmetterlingshafte, Florfliegen und Ameisenjungfern (Neuropterida: Ascalaphidae, Chrysopidae, Myrmeleonidae) der Kapverden (Cabo Verde). *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologe*, 64:119-124 [r#15073]
- Albuquerque, G. S.; Tauber, C. A.; Tauber, M. J. 2012. Green lacewings (Neuroptera: Chrysopidae): predatory lifestyle. Pp. 593-631 in Panizzi, A. R.; Parra, J. R. P. (eds.). *Insect bioecology and nutrition for integrated pest management*. CRC Press, Boca Raton, FL. 732 pp [r#14629]
- Alziar, G.; Lemaire, J.-M. 2012. Les missions entomologiques du Museum d'Histoire Naturelle de Nice (France), 2004-2010. *Biocosme Mesogéen* 29(3-4): 57-104.
- Amaral, D. S. S. L.; Venzon, M.; Duarte, M. V. A.; dos Santos, H. H.; Harwood, J. D. 2012. Spontaneous weed strips associated with chili pepper agroecosystems impact the abundance and survival of aphid predators. ESA Meeting 2012, Knoxville, TN, VP13.
- Ardila Camacho, [J.] A.; García García, A. 2012. Nuevos registros y redescrípción de dos especies del género *Cordulecerus* Rambur, 1842 (Neuroptera: Ascalaphidae) de Colombia. *Boletín de la Sociedad Entomológica Aragonesa* 50:505-511 [r#14688]
- Asadi, M.; Mirmoayedí, A. 2013. New records of Neuroptera from Kermanshah province, West Iran. In: *Proceedings of the 4th international conference on Insect science*, February 14-17, 2013, Bangalore, India: 93.
- Aspöck, H. 2013. Tondokumente im Archiv der Österreichischen Entomologischen Gesellschaft. *Entomologica Austriaca* 20:261–264 [r#15083]
- Aspöck, H.; Aspöck, U. 2012. Raphidioptera. In: McGraw-Hill Encyclopedia of Science & Technology, 11th ed., Volume 15, pp. 217–219, New York, 2012. [r#14881]
- Aspöck, H.; Aspöck, U. 2012. Raphidioptera. in AccessScience. *McGraw-Hill Companies*. URL: <http://www.accessscience.com/content.aspx?searchStr=raphidioptera&id=900191>. [r#14953]
- Aspöck, H.; Aspöck, U. 2013. Biogeography and systematics: The genesis of the distribution of Raphidioptera in the world. In: Kroh, A. et al. 2013. *BioSyst.EU 2013, Global systematics!*, 18–22 February 2013, Vienna, Austria: 15-16.
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Picture of the semester



Sinoneurorthus yunnanicus
Liu, X.-y.; Aspöck, H.; Aspöck, U.
2012
Neuroptera Nevrothidae
photo by courtesy of Dr. Hu Li

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

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Zeitschrift/Journal: [Lacewing News - Newsletter of the International Association of Neuropterology](#)

Jahr/Year: 2013

Band/Volume: [16](#)

Autor(en)/Author(s): diverse

Artikel/Article: [Lacewing News 16 1](#)