

3rd Dresden Meeting on Insect Phylogeny, September 21–23, 2007

<http://www.snsd.de/insectphyl2007>

Klaus-Dieter Klass, Museum für Tierkunde Dresden [insectphyl2007@snsd.de]

(New time schedule September 04, 2007)

Friday, September 21	Chair of morning session: Klaus-Dieter Klass Chair of afternoon session: Bernhard Misof
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- 9:00–9:05 **Opening**
Dr Klaus-Dieter **Klass**
- 9:05–9:35 **“Evolution of mandibular articulations in the light of the Pancrustacea hypothesis”**
Dr Markus **Koch**
Institute of Biology, AG Animal Systematics and Evolution, Freie Universität Berlin, Königin-Luise-Str. 1-3, 14195 Berlin, Germany [mkoch@zoosyst-berlin.de]
- 9:35–10:05 **“The origin of insect flight”**
Prof. Dr Ivar **Hasenfuss**
Karlsbader Str. 9, 91083 Baiersdorf, Germany [IHasenfuss@T-Online.de]
- 10:05–10:35 **“The phylogeny of Zygoptera (Odonata)”**
Dr Frank L. **Carle**¹, Dr Michael L. **May**¹ & Dr Karl M. **Kjer**²
¹ Department of Entomology, Rutgers University, Blake Hall, 93 Lipman Dr, New Brunswick, New Jersey, 08901, USA [Carle@aesop.rutgers.edu; May@aesop.rutgers.edu]
² Department of Ecology, Evolution and Natural Resources, Rutgers University, Blake Hall, 93 Lipman Dr, New Brunswick, New Jersey, 08901, USA [Kjer@aesop.rutgers.edu]
- 10:35–11:00 *coffee break*
- 11:00–11:30 **“The phylogeny of Anisoptera (Odonata)”**
Dr Bernhard **Misof**
Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany [b.misof.zfmk@uni-bonn.de]
- 11:30–12:00 **“Wing venation, phylogeny and evolution of Late Palaeozoic to Early Mesozoic Archaeorthoptera”**
Dr Olivier **Béthoux**
Museum of Zoology Dresden, Königsbrücker Landstr. 159, 01109 Dresden, Germany [olivier.bethoux@snsd.smwk.sachsen.de]
- 12:00–12:30 **“The phylogeny of Isoptera (Dictyoptera)”**
Dr Paul **Eggleton**
The Natural History Museum, Cromwell Road, SW7 5BD, London, England [p.eggleton@nhm.ac.uk]
- 12:30–13:50 *lunch break*
- 13:50–14:20 **“The phylogeny of semiaquatic bugs Hemiptera-Heteroptera: Gerromorpha with special emphasis on water striders (Gerridae)”**
Dr Jakob **Damgaard**
Department of Evolutionary Biology, Biological Institute, University of Copenhagen, Gothersgade 140, DK-1123 Copenhagen, Denmark [jdamgaard@bi.ku.dk]
- 14:20–14:50 **“The phylogeny of Pentatomoidea (Heteroptera) with special emphasis on the evolution of phytophagy and parental care”**
Dr Christian **Fischer**
Institute of Biology/Zoology, AG Evolutionary Biology, Free University Berlin, Berlin, Königin-Luise-Str. 1-3, D-14195 Berlin, Germany [cfischer@zedat.fu-berlin.de]
- 14:50–15:20 *coffee break*
- 15:20–15:50 **“The phylogeny of aquatic bugs Hemiptera-Heteroptera: Nepomorpha with**

special emphasis on water boatmen (Corixidae)

Dr Jakob **Damgaard**

Department of Evolutionary Biology, Biological Institute, University of Copenhagen, Gothersgade 140, DK-1123 Copenhagen, Denmark [jdamgaard@bi.ku.dk]

15:50–16:20

“Classification of the order Raphidioptera: Present state of knowledge”

Prof. Dr Ulrike **Aspöck**¹, Priv.-Doz. Dr Elisabeth **Haring**², Dr John D. **Plant**³ & Prof. Dr Horst **Aspöck**⁴

¹ Department of Entomology, Museum of Natural History, Vienna, Burgring 7, 1010 Vienna, Austria [ulrike.aspoeck@nhm-wien.ac.at]

² 1st Zoology Department, Museum of Natural History, Vienna, Burgring 7, 1010 Vienna, Austria

³ Department of Evolutionary Biology, University of Vienna, Althanstrasse 14, 1090 Vienna, Austria

⁴ Department of Medical Parasitology, Clinical Institute of Hygiene and Medical Microbiology, Medical University of Vienna (MUW), Kinderspitalgasse 15, 1090 Vienna, Austria [horst.aspoeck@meduniwien.ac.at]

from 16:20

Time for posters

Saturday, September 22

Chair of morning session: Rolf Beutel
Chair of afternoon session: Horst Aspöck

09:00–09:30

“The phylogeny of Orussidae (Hymenoptera) revisited”

Dr Lars **Vilhelmsen**

Department of Entomology, Natural History Museum of Denmark, Copenhagen University, Universitetsparken 15, DK-2100 Copenhagen, Denmark [lbvilhelmsen@snm.ku.dk]

09:30–10:00

“Systematics of Evaniomorpha (Hymenoptera) - improving the taxonomy of a neglected wasp fauna”

Dr Andrew R. **Deans**

School of Computational Science, Florida State University, Tallahassee, FL, 32306, USA [adeans@scs.fsu.edu]

10:00–10:30

“Phylogeny of apoid wasps (Hymenoptera)”

Dr Michael **Ohl**

Museum für Naturkunde der Humboldt-Universität zu Berlin, Entomologie, Invalidenstr. 43, 10115 Berlin, Germany [michael.ohl@museum.hu-berlin.de]

10:30–11:00

coffee break

11:00–11:30

“Phylogeny of the bees based on single-copy nuclear gene data provides new insights into early bee diversification (Hymenoptera)”

Prof. Dr Bryan N. **Danforth**¹, Sedonia **Sipes**² & Sean **Brady**³

¹ Department of Entomology, Cornell University, Ithaca, NY 14850, USA [bnd1@cornell.edu]

² Department of Plant Biology, Southern Illinois University, Carbondale, IL 62901-6899, USA [ssipes@plant.siu.edu]

³ Department of Entomology, Smithsonian Institution, Washington, DC 20013-7012, USA [bradys@si.edu]

11:30–12:00

“The phylogeny of the Vespidae (Hymenoptera)”

Dr James M. **Carpenter**¹ & Dr Kurt M. **Pickett**²

¹ Division of Invertebrate Zoology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024, USA [carpente@amnh.org]

² Department of Biology, University of Vermont, 120A Marsh Life Science Building, 109 Carrigan Drive, Burlington, VT 05405, USA [Kurt.Pickett@uvm.edu]

12:00–12:20

All speakers and visitors of the meeting are invited to group for a photo. Please meet in the backyard of the building (opposite to the main entrance), and please go there immediately after the end of the last morning talk!

12:20–13:30

lunch break

- 13:30–14:00 **“The morphological and molecular phylogeny of Culicidae (Diptera)”**
 Dr Ralph E. **Harbach**¹ & Prof. Nora J. **Besansky**²
¹ Department of Entomology, The Natural History Museum, Cromwell Road, London SW7 5BD, U.K. [r.harbach@nhm.ac.uk]
² Department of Biological Sciences, 317 Galvin Life Sciences Bldg, University of Notre Dame, Notre Dame, IN 46556-0369, U.S.A. [nbesansk@nd.edu]
- 14:00–14:30 **“Evolution and phylogenetic relationships of the Empidoidea (Diptera) based on molecular and morphological evidence”**
 Dr Bradley J. **Sinclair**¹, Prof. Dr Brian M. **Wiegmann**² & Dr Jeffrey M. **Cumming**³
¹ Entomology – Ontario Plant Lab., Canadian Food Inspection Agency, K.W. Neatby Bldg., CEF, 960 Carling Ave., Ottawa, ON, K1A 0C6, Canada [sinclairb@inspection.gc.ca]
² Department of Entomology, North Carolina State University, Box 7613, Raleigh, North Carolina, USA [bwiegman@ncsu.edu]
³ Invertebrate Biodiversity, Agriculture and Agri-Food Canada, K.W. Neatby Bldg., CEF, 960 Carling Ave., Ottawa, ON, K1A 0C6, Canada [cummingjm@agr.gc.ca]
- 14:30–15:00 **“The phylogeny of the Sciomyzoidea (Diptera)”**
 Prof. Dr Brian M. **Wiegmann**¹, Prof. Dr Rudolf **Meier**², Dr David A. **Barracough**³ & Brian K. **Cassel**¹
¹ Department of Entomology, North Carolina State University, Box 7613, Raleigh, North Carolina, USA [bwiegman@ncsu.edu]
² Department of Biological Sciences, National University of Singapore, 14 Science Drive 4, Block S2 #02-01, Singapore 117543 [dbsmr@nus.edu.sg]
³ School of Biological and Conservation Sciences, University of KwaZulu-Natal, George Campbell Building, Durban 4041, South Africa [barracoughd@ukzn.ac.za]
- 15:00–15:30 *coffee break*
- 15:30–16:00 **“The phylogeny of Calyptratae (Diptera)”**
 Dr Thomas **Pape**¹, Prof. Dr Rudolf **Meier**², Ms Sujatha N. **Kutty**³ & Dr Krzysztof **Szpila**⁴
¹ Department of Entomology, Natural History Museum of Denmark, Universitetsparken 15, 2100 Copenhagen, Denmark [tpape@snm.ku.dk]
² Department of Biological Sciences, National University of Singapore, 14 Science Drive 4, 117543 Singapore, Singapore [dbsmr@nus.edu.sg]
³ Department of Biological Sciences, National University of Singapore, 14 Science Drive 4, 117543 Singapore, Singapore [sujatha@nus.edu.sg]
⁴ Department of Animal Ecology, Nicolaus Copernicus University, Gagarina 9, 87-100 Toruń, Poland [szpila@biol.uni.torun.pl]
- 16:00–16:30 **“The phylogeny of Zygaenidae (Lepidoptera)”**
 Dr Bernhard **Misof** et al.
 Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany [b.misof.zfmk@uni-bonn.de]
- 16:30–17:30 *Official poster session: authors of presentations are kindly asked to stay with their posters*
- 19:30–22:30 *Social evening with dinner (in “Blockhaus” = location of meeting)*

Sunday, September 23

Chair of morning session: Niels Peder Kristensen
 Chair of afternoon session: Klaus-Dieter Klass

- 9:00–9:45 **“The phylogeny of Sphingidae (Lepidoptera)”**
 Mr. Akito **Kawahara**¹ & Dr Ian J. **Kitching**²
¹ Department of Entomology, University of Maryland, College Park, 4112 Plant Sciences Building, MD 20472-4454, USA [kawahara@umd.edu]
² Department of Entomology, The Natural History Museum, London, Cromwell Road, SW7 5BD, UK [i.kitching@nhm.ac.uk]
- 9:45–10:15 **“Non-model taxa in the phylogenomic era: an example from Nymphalidae (Lepidoptera)”**
 Dr Niklas **Wahlberg**¹ & Dr Christopher W. **Wheat**²

¹ Department of Biology, University of Turku, 20014 Turku, Finland
[niklas.wahlberg@utu.fi]

² Department of Biological and Environmental Sciences, University of Helsinki, PO Box 65 (Viikinkaari 1), FI-00014 University of Helsinki, Finland [cww10@psu.edu]

10:15–10:45

coffee break

10:45–11:15

“Are the Archostemata (Coleoptera) a taxonomic waste-basket?”

Prof. Dr Rolf G. **Beutel** & Frank **Friedrich**

Institut für Spezielle Zoologie und Evolutionsbiologie, FSU Jena, Erbertstraße 1, 07743 Jena, Germany [b5bero@rz.uni-jena.de; frank.friedrich@uni-jena.de]

11:15–11:45

“The phylogeny of the diving beetles”

Dr Michael **Balke**¹, Dr Alfred P. **Vogler**² & Dr Ignacio **Ribera**³

¹ Department of Entomology, Zoologische Staatssammlung München, Münchhausenstr. 21, 81247 München, Germany [michael_balke@yahoo.de]

² Department of Entomology, Natural History Museum, London, Cromwell Road, SW7 5BD, England [apv@nhm.ac.uk]

³ Departamento de Biodiversidad y Biología Evolutiva, Museo Nacional de Ciencias Naturales Madrid, José Gutiérrez Abascal 2, 28006 Madrid, Spain [i.ribera@mncn.csic.es]

11:45–13:15

lunch break

13:15–13:45

“Phylogeny of Staphyliniformia (Coleoptera)”

Dr Detlef **Bernhard**¹ & Prof. Dr Rolf G. **Beutel**²

¹ Institut für Zoologie, Molekulare Evolution und Systematik der Tiere, Universität Leipzig, Talstr. 33, 04103 Leipzig, Germany [bernhard@rz.uni-leipzig.de]

² Institut für Spezielle Zoologie und Evolutionsbiologie, Friedrich-Schiller-Universität Jena, Erbertstr. 1, 07743 Jena, Germany [b5bero@rz.uni-jena.de]

13:45–14:15

“Trends in chafer evolution (Coleoptera: Scarabaeidae) – from morphology to molecules: How to explain the evolutionary success of generalist herbivores?”

Dr Dirk **Ahrens**¹ & Prof. Dr Alfred P. **Vogler**^{2,3}

¹ Department of Entomology, Zoologische Staatssammlung München, Münchhausenstr. 21, 81247 München, Germany [ahrens.dirk_col@gmx.de]

² Entomology Department, Natural History Museum, London SW7 5BD, United Kingdom [a.vogler@nhm.ac.uk]

³ Division of Biology, Imperial College London, Silwood Park Campus, Ascot, Berkshire SL5 7PY, United Kingdom

14:15

Closure

Dr Klaus-Dieter **Klass**