

See discussions, stats, and author profiles for this publication at:
<https://www.researchgate.net/publication/302588151>

Wax and wane of Baltic amber Achilidae (Hemiptera: Fulgoromorpha)

Conference Paper · April 2016

READS

27

2 authors:



[Alicja M. Brysz](#)

University of Gdańsk

3 PUBLICATIONS 0 CITATIONS

[SEE PROFILE](#)



[Jacek Szwedo](#)

University of Gdańsk

174 PUBLICATIONS 610 CITATIONS

[SEE PROFILE](#)

7th INTERNATIONAL CONFERENCE ON FOSSIL INSECTS, ARTHROPODS AND AMBER

26th April – 1st May 2016
National Museum of Scotland, Edinburgh, UK



ABSTRACTS

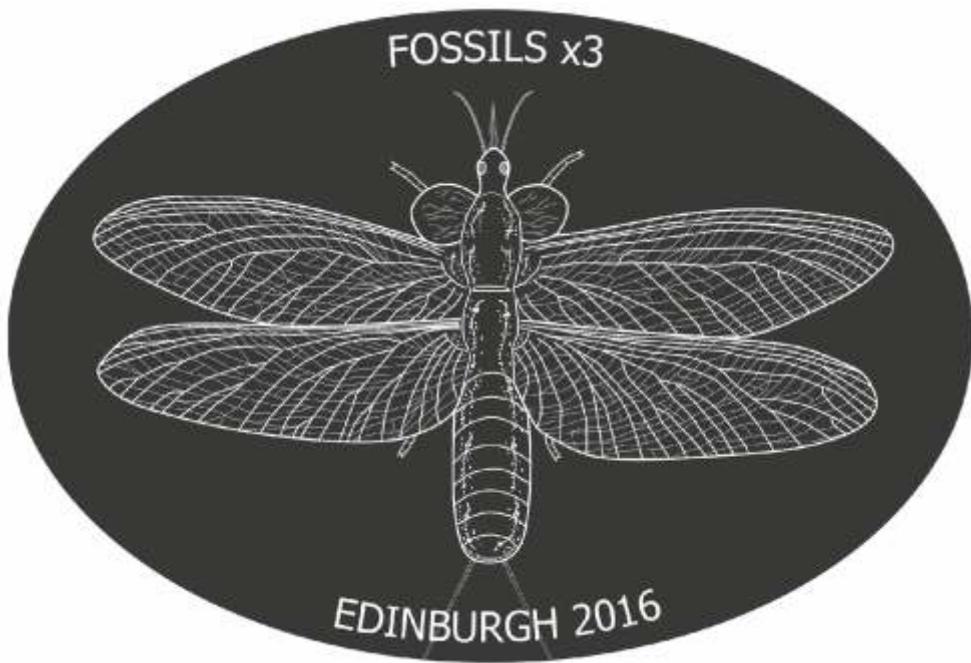
Edited by
Dr David Penney & Dr Andrew J. Ross

**7th International Conference on fossil Insects ,
Arthropods and amber**

ABSTRACTS

Edited by

Dr David Penney & Dr Andrew J. Ross



26 April – 1 May
National Museum of Scotland



National
Museums
Scotland

 **SSP**
SIRI SCIENTIFIC PRESS

Typesetting and production by David Penney and Siri Scientific Press
www.siriscientificpress.co.uk

CONTENTS

ABSTRACTS

Organised alphabetically by first author
(* = presenting author)

TALKS.....	4
POSTERS.....	64

Wax and wane of Baltic amber Achilidae (Hemiptera: Fulgoromorpha)

Alicja Brysz* & Jacek Szwedo

*Department of Invertebrate Zoology and Parasitology, University of Gdańsk, 59,
Wita Stwosza Street, PL80-308 Gdańsk, Poland;
email: alicja.brysz@biol.ug.edu.pl

The Achilidae family of planthoppers (Hemiptera: Fulgoromorpha) appear in the fossil record in the early Cretaceous (*Acixiites* Hamilton, 1990; *Niryasaburnia* Szwedo, 2004). Currently, the family comprises three subfamilies: Achilixinae, Bebaiotinae and Achilinae, the last including 11 Recent tribes: Myconini, Rhotanini, Mycarini, Amphignomini, Plectoderini, Achilini, Achillini, Ilvini, Sevini, Apatesonini and Trephilepsini. The taxic diversity of Achilidae is often expressed by a single or just a few species representing particular tribes. For many of the tribes, the material available in collections is poor, often with just one or two specimens of a single sex. The biological data for the species are very scarce.

The early descriptions of fossils from Baltic amber, from the classical Ger-mar & Berendt (1856) work present several undoubted Achilidae placed in non-achiliid genera (Szwedo *et al.*, 2004; Emeljanov & Shcherbakov, 2009). Subsequently, the achilids were described by Cockerell (as cixiid) and by Usinger (1939). The extinct tribes *Ptychoptilini* (Emeljanov, 1990 – *Ptychoptilum*; Szwedo & Stroinski, 2001 – *Ptychogroehnia*) and *Waghildini* (Szwedo, 2006 – *Waghilde*) were described later. Lefebvre *et al.* (2007) added a monotypic genus *Angustachilus* Lefebvre, Bourgoin & Nel, 2007. Emeljanov & Shcherbakov (2009) added three more genera: *Paratesum*, *Protomenocria*, *Psycheona* and discussed Achilidae fossils from Baltic amber.

Surprisingly, the vast majority of the fossils from the Baltic amber are to be placed in the tribe Achilini, in a modern fauna represented by the subtribes Elidipterina (11 modern genera), Achilina (four modern genera) and Cixidiina (a single Recent genus). The last subtribe comprises also the extinct *Proteoipiptera*, the remaining genera are not ascribed to subtribes.

The former studies on taxic diversity and morphological disparity of Baltic amber Achilidae revealed a number of unique forms, not present among recent Achilidae (Ptychoptilini, Waghildini), nor ascribable to Recent Achilini (which are not particularly diverse). Achilidae seems to be a relict in the modern fauna, and their taxic diversity is the result of a long evolutionary history. This hypothesis could be tested with detailed studies of the inclusions of Eocene Baltic amber, the probable time of the Achilidae heyday.

No room to include the full reference citations, please contact the author for full details.

FOSSILS x3



EDINBURGH 2016



Cover photograph by Bill Crighton, logo by Dr Sarah Stewart