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POLISH ACADEMY OF SCIENCES

# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	1	1-6
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Wojciech CZECHOWSKI, Wiesława CZECHOWSKA

**New sites in Poland and notes on the biology of socially parasitic ants**  
*Formicoxenus nitidulus* (NYL.) and *Harpagoxenus sublaevis* (NYL.) (Hymenoptera,  
*Formicidae*)

**Abstract.** The paper gives new sites of two ant species rarely recorded from Poland, namely *Formicoxenus nitidulus* (NYL.) in Mazovian Lowlands and Podlasie (in the Białowieża Forest) and *Harpagoxenus sublaevis* (NYL.) in Sandomierska Lowland (in the Sandomierska Forest); occurrence of the latter in the Tatra Mts. is confirmed. Some notes on the biology of these social parasites are given.

**Key words:** ants, social parasites, xenobiosis, dulosis, *Formicoxenus nitidulus*, *Harpagoxenus sublaevis*, fauna, Poland.

**Authors' address:** Museum & Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	2	7-10
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Wojciech CZECHOWSKI, Wiesława CZECHOWSKA

## **New data on the occurrence of ants of the subfamily *Ponerinae* (*Hymenoptera*, *Formicidae*) in Poland**

**Abstract.** The paper gives new sites of two ant species rarely recorded from Poland, namely native *Ponera coarctata* (L.) and imported *Hypoponera punctatissima* (ROG.). The occurrence of *P. coarctata* in the Pieniny Mts (the Western Carpathians) is described.

**Key words:** ants, *Ponera coarctata*, *Hypoponera punctatissima*, fauna of Poland, ecology, synanthropic fauna

**Authors' address:** Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	3	11-15
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Regina BAŃKOWSKA

## **Syrphid flies (*Syrphidae*, *Diptera*) from China collected by Polish expeditions**

**Abstract:** The paper contains a list of 17 species of dipterans of the family *Syrphidae* collected by Polish expeditions in south-east China. The *Syrphidae* material included two rarely registered species: *Eumerus japonicus* MATS. and *Mesembrius flaviceps* (MATS.).

**Key words:** *Syrphidae*, *Diptera*, China

**Author's address:** Muzeum i Instytut Zoologii PAN, ul. Wilcza 64, 00-679 Warszawa, POLAND

# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	4	17-27
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Regina BAŃKOWSKA

## **Syrphid flies (*Diptera, Syrphidae*) from North Korea collected by Polish expeditions. Part II (*Syrphinae*)**

**Abstract:** The present paper is a continuation of an earlier paper concerned with the *Syrphidae* collected by Polish expeditions to North Korea and is specifically concerned with the second part of the collections of the subfamily *Syrphinae*. 28 species representing 16 genera were identified in the material. The results of a zoogeographical analysis of the *Syrphidae* material are also presented alongside species composition similarity comparisons between the fauna of Korea with the adjacent regions of Sakhalin and the Kuril Islands and the Primorye region.

**Key words:** *Syrphidae*, *Diptera*, North Korea

**Author's address:** Muzeum i Instytut Zoologii PAN, ul. Wilcza 64, 00-679 Warszawa, POLAND

# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	5	29-40
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Paweł SZYMKOWIAK<sup>1</sup>, Marek WOŹY<sup>2</sup>, Monika BŁAŻEJCZYK<sup>3</sup>

## A comparison of the species composition of spider communities over sixty years in the vicinity of Krotoszyn

**Abstract.** Studies in the vicinity of Krotoszyn were carried out from August 1992 till November 1994. A total of 148 samples were taken; in the material of 1606 specimens 170 spider species were found. Over sixty years ago MIEDZIŃSKI (1934) recorded 119 species from that area. The results of our studies were compared with those of Miedziński, Table 1: 69 species were recorded in both papers, 101 are new to the studied area, and 50 have not been confirmed. The differences in the species composition have several reasons: a) the studied area was gradually getting drier, b) the exploration time was short, c) not all collecting techniques were used, and not all habitat types were included in MIEDZIŃSKI'S studies. The present list of spider species from the vicinity of Krotoszyn includes 220 species, 7 of them being new to Greater Poland-Kujawy Lowland.

**Key words:** *Aranei*, changes of the fauna, Krotoszyn vicinity.

**Authors' addresses:** <sup>1</sup>Department of Animal Taxonomy and Ecology, A. Mickiewicz University, Szamarzewskiego 91 A, 60-569 Poznań, POLAND

<sup>2</sup>Department of Animal Taxonomy and Zoogeography, University of Wrocław, Sienkiewicza 21, 50-335 Wrocław, POLAND

<sup>3</sup>M. Konopnickiej 9, 63-700 Krotoszyn, POLAND

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.06.1999	42	6	41-55
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Piotr SKUBAŁA, Mariola CIOŚK

## **Oribatid mites (*Acari, Oribatida*) colonizing the zinc metallurgic dump**

**Abstract.** The studies were conducted on the old zinc metallurgic dump in Katowice (Upper Silesia, Poland). The structure of oribatid mite communities and ecological data of mites at three sites varying in age of substrate and development of vegetation were analysed. In the course of the study 3742 individuals of oribatids, representing 32 species were collected. Colonization of the highly contaminated zinc dump by oribatid mites proceeds slowly. Oribatid communities were characterized by low abundance, low number of species and unstable structure, however the community at the oldest site was better developed. Some of the pioneer species, e.g. *Oppiella nova*, *Tectocepheus velatus*, *Ceratozetes peritus* and *Punctoribates punctum* have been noted previously as mites which colonize postindustrial wastelands, whereas *Ramusella assimilis* and *Latilamellobates incisellus* have been rarely observed in devastated biotopes. A preponderance of eurytopic species, characterized by broad zoogeographical distribution was typical for oribatid communities on the zinc dump.

**Key words:** *Oribatida*, zinc metallurgic dump, colonization, pioneer species

**Authors address:** University of Silesia, Department of Ecology, 40-007 Katowice, Bankowa 9, POLAND, e-mail: pskubala@us.edu.pl

# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.12.1999	42	7	57-70
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Monika WĄSOWSKA

**Chrysomelid communities (*Coleoptera*, *Chrysomelidae*)  
of linden-oak-hornbeam forests of the Wierzbanówka Stream valley  
in Pogórze Wielickie**

**Abstract.** 52 chrysomelid species was recorded at two sites in linden-oak-hornbeam forests in the Wierzbanówka valley (Pogórze Wielickie, S Poland) during a two-year study, including 46 species in the ground cover and 28 species in the understorey (on hornbeam and on bird cherry). The chrysomelid communities of both sites have been described in terms of species composition, abundance, the structure of dominance and zoogeography. At both sites, *Oulema gallaeciana* was the dominant species in the ground cover. Of the species recorded from the understorey only *Gonioctena quinquepunctata* was associated with bird cherry. The results obtained were compared with the data from the literature referring to other regions in Poland. It was found that, in Poland, the chrysomelid fauna of linden-oak-hornbeam forests was richer in upland and mountainous areas than that in lowland areas (this was true both in respect of the number of species and the abundance of particular species).

**Key words:** *Coleoptera*, chrysomelid communities, linden-oak-hornbeam forests *Tilio-Carpinetum*, Poland

**Author's address:** Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.12.1999	42	8	71-93
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Joanna PAKULNICKA\*, Wojciech BARTNIK\*\*

## Changes in the fauna of aquatic beetles (*Coleoptera aquatica*) in Lake Luterskie (Olsztyn Lake District) in 1981-1993

**Abstract.** Ninety-five species of aquatic beetles were observed in the weakly eutrophic Lake Luterskie. The dominants were: *Noterus crassicornis*, *Haliphus flavicollis* and *H. immaculatus*. Over 13 years there was a decrease in the community abundance of aquatic beetles. Changes took place also with respect to the occurrence of the species, domination structure (a decrease in the abundance of *Haliplidae*, and an increase in the abundance of *Dytiscidae* communities) and synecological grouping (a decrease in the number of lake-river elements, and an increase of small water-body species). These changes clearly indicate progressing eutrophication of the lake under study.

**Key words:** lake, aquatic beetles, eutrophication

**Author's addresses:** \*Department Ecology and Environ Protection, Warmia and Masurian University,  
Żołnierska 14, 10-561 Olsztyn, POLAND

\*\*Primary School in Lutry, 11-332, Lutry, POLAND



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Fragm. faun.	Warsaw, 30.12.1999	42	9	95-103
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Stanisław HURUK

## Current knowledge about the carabid beetles (*Carabidae*, *Col.*) of the Świętokrzyski National Park

**Abstract.** This paper contains an inventory of 120 species registered to date from the area of the Holy Cross (Świętokrzyskie) Mountains. The carabid fauna recorded in the area includes 12 species belonging to the genus *Carabus* L., classified as legally protected species in Poland, 6 mountain-associated species and 2 species, *Pterostichus burmeisterii* HERR and *Amara erratica* (DUFT.), occurring at isolated locations. *A. erratica* is regarded as a postglacial relic within the Park.

**Key words:** Poland, Świętokrzyski National Park, *Carabidae*, *Coleoptera*

**Author's address:** Pedagogical University, Institute of Biology, Department of Zoology, Konopnickiej 15, 25-406 Kielce, Poland

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.12.1999	42	10	103-113
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Alexander RADCHENKO\*, Wiesława CZECHOWSKA\*\*, Wojciech CZECHOWSKI\*\*,  
Ewa SIEDLAR\*\*

***Lasius niger* (L.) and *Lasius platythorax* SEIFERT  
(Hymenoptera, Formicidae) – a revolution in Polish myrmecological  
faunistics and zoocoenology?**

**Abstract.** Data are presented on the distribution, in Poland, of *Lasius niger* (L.) and *L. platythorax* SEIFERT (the latter as a species new to Poland). These data were obtained from an inspection of the ant collection in the Museum and Institute of Zoology, PAS in Warsaw. It is confirmed that SEIFERT (1991) was correct when he separated the originally collective taxon «*Lasius niger*» into the above-mentioned sibling species. A simplified key for distinguishing these forms is provided.

**Key words:** ants, *Lasius niger*, *Lasius platythorax*, sibling species, faunistics, Poland, key

**Authors' addresses:** \*Institute of Zoology, UNAS, B. Khmelnytsky St. 15, Kiev-30, 01-601 UKRAINE; e-mail rad@usenc.kiev.ua

\*\*Museum and Institute of Zoology, PAS, Wilcza St. 64, 00-679 Warszawa, POLAND; e-mail wcz@robal.miiz.waw.pl

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.12.1999	42	11	115-121
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Alexander RADCHENKO\*, Wiesława CZECHOWSKA\*\*, Wojciech CZECHOWSKI\*\*, Ewa SIEDLAR\*\*

## Four species of the ant genus *Lasius* F. new to Poland, with additions to the records for previously reported species (Hymenoptera, Formicidae)

**Abstract.** The distribution in Poland of species of the genus *Lasius* F. are reviewed. First records are described for *Lasius psammophilus* SEIFERT, *L. paralienus* SEIFERT (subgenus *Lasius* s.str.), *L. rabaudi* BONDROIT, and *L. jensi* SEIFERT (subgenus *Chtonolasius* RUZSKY). New localities for the rare *Chtonolasius* species, *Lasius mixtus* (NYLANDER), *L. distinguendus* (EMERY), *L. meridionalis* (BONDROIT), *L. bicornis* (FOERSTER), and *L. affinis* (SCHENCK) are reported, together with data on the distribution of some more widespread species.

**Key words:** ants, *Lasius psammophilus*, *Lasius paralienus*, *Lasius rabaudi*, *Lasius jensi*, faunistics, Poland

**Authors' addresses:** \*Institute of Zoology, UNAS, B. Khmel'nitsky St. 15, Kiev-30, 01-601 UKRAINE; e-mail rad@usenc.kiev.ua

\*\*Museum and Institute of Zoology, PAS, Wilcza St. 64, 00-679 Warszawa, POLAND; e-mail wcz@robal.miiz.waw.pl

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Fragm. faun.	Warsaw, 30.12.1999	42	12	123-126
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Wojciech CZECHOWSKI\*, Michał WOYCIECHOWSKI\*\*, Wiesława CZECHOWSKA\*

## *Myrmica microrubra* SEIFERT, 1993 (Hymenoptera, Formicidae) - an inquiline ant species new to Poland

**Abstract.** *Myrmica microrubra* SEIFERT, a social parasite of *Myrmica rubra* (L.), is first reported from Poland based on two colonies and a common mating place of these two species found in 1999 in the Krakowsko-Wieluńska Uplands. The detailed composition of one of the mixed colonies is given.

**Key words:** ants, *Myrmica microrubra*, *Myrmica rubra*, inquilines, social parasites, fauna of Poland

**Authors' addresses:** \*Museum and Institute of Zoology, PAS, Wilcza St. 64, 00-679 Warszawa, POLAND;  
e-mail wcz@robal.miiz.waw.pl

\*\*Bee Research Department, Agricultural University, 29 Listopada Ave. 52, 31-425  
Kraków, POLAND; e-mail rowoycie@cyf-kr.edu.pl

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# FRAGMENTA FAUNISTICA

Fragm. faun.	Warsaw, 30.12.1999	42	13	127-132
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R. Henry L. DISNEY\* and Ewa DURSKA\*\*

## **A new subspecies of a scuttle fly (*Diptera: Phoridae*) that feeds on oyster mushrooms (*Pleurotus ostreatus*) in Poland**

**Abstract.** The Oriental species *Megaselia tamilnaduensis* DISNEY, but of a new subspecies *polonica*, is reported to be a pest of the mycelium of cultivated *Pleurotus ostreatus* (JACQ. ex FR.) QUÉL. in Poland. In considering its affinities with European species, *M. compacta* SCHMITZ is synonymised with *M. devia* SCHMITZ.

**Key words:** *Lentinaceae*, *Pleurotus*, *Phoridae*, *Megaselia*, pest, subspecies, synonym.

**Authors' addresses:** \* University Museum of Zoology, Downing Street, Cambridge CB2 3EJ, UK

\*\* Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND