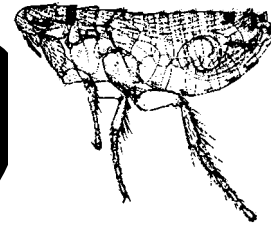


flea

NEWS

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Department of Entomology

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FLEA NEWS is a biannual newsletter devoted to matters involving insects belonging to the order Siphonaptera (fleas) and related subjects. It is compiled and distributed free of charge by Robert E. Lewis (relewis@iastate.edu) with the support of the Department of Entomology at Iowa State University, Ames, IA, and a grant in aid from **Sandoz Animal Health**, based in Des Plaines, IL. It is mainly bibliographic in nature. Many of the sources are abstracting journals and title pages and not all citations have been checked for completeness or accuracy. Additional information will be provided upon written or e-mail request. Further, recipients are urged to contribute items of interest to the profession for inclusion herein.

This newsletter is now available in electronic format. The preferred method of accessing the electronic version is through the World-Wide Web at the following Universal Resource Locator:

<<http://www.ent.iastate.edu/FleaNews/>

AboutFleaNews.html> or through either Gopher or anonymous FTP: <gopher.ent.iastate.edu> in the "Publications" directory. Electronic versions are available for No. 46, July, 1993; No. 47, December, 1993; No. 48, July, 1994; No. 49, December, 1994 and this number.

The opinions and assertions contained herein are the private ones of the authors and are not to be construed as official or as reflecting the views of the Department of Entomology, Iowa State University or Sandoz Animal Health.

Shortly after mailing Flea News 49 we were informed by Dr. R. L. C. Pilgrim, University of Canterbury, Christchurch, New Zealand of the death of Dr. **Maria Suci**. He later received an extensive obituary and bibliography from Dr. F. Aioanei, a colleague in Bucharest. Following is a translation of a portion of this obituary and a list of Dr. Suci's publications that dealt with fleas.

Maria Suci

Maria Suci was born in Giurgiu, Romania, on 9 January 1932 and died in Bucharest on 24 September 1994. She received her secondary education in Giurgiu, graduating in 1950. From 1950 to 1954 she attended the University of Bucharest. There she majored in Biology, graduating with a

License en Science Naturelles. Upon graduation she was appointed preparator in the Invertebrate Zoology laboratory at the University. Here she remained until retirement in 1989. In 1970 she was awarded the Doctorate of Natural Sciences for her thesis entitled *Contributions to the study of the systematics, ecology and zoogeography of the Siphonaptera (Latreille) of Roumania*. The study was based on over 3500 specimens representing 65 species and subspecies of fleas. Twenty-nine of these were reported from Romania for the first time, including one new species, *Ctenophthalmus fransmiti* Suciú, 1969, and one new subspecies, *Ctenophthalmus capriciosus carpathicus* Suciú, 1969.

Although I (REL) never met her personally, I carried on a sporadic correspondence with her from the mid 1960's until recently and she was a recipient of Flea News from its inception in 1963 until the present. As one of her colleagues described her "...[Maria] was exact and reliable in her profession and research, but modest in her private life, this *belle femme* was impeccable and impetuous in her deportment, always gay spirited, always full of humor [albeit] sometimes accented with irony [and] never unpleaseant".

Dr. Suciú was author or co-author of 83 technical works and presentations, 41 of which dealt with ectoparasites. Following is a list of the latter. Works are all in the Romanian language unless cited in some other tongue. Co-authors are included at the end of citations.

1965

Contributiuni la studiul sifonapterelor din R.S.R (Siphonaptera Latreille). **Anal. Univ. Buchuresti, Ser. Sti. Nat. Biol.** :131-136.

1967

Contributiuni la studiul sifonapterelor din R.S.R (Siphonaptera Latreille). **Comun. Zool.** 5: 76-94.

Siphonaptere parazite la chiroptere (Chiroptera) din Romania. **Stud. Cerc. Biol.** 196): 487-492.

1968

Siphonaptere parazite la pasari din Romania. **Anal. Univ. Buchuresti, Ser. Sti. Nat. Biol.** : 45-48.

Siphonaptere din pesterile din Romania. **Stud. Cerc. Ser. Zool.** 20(3): 245-254.

Siphonaptères collectées dans les nids de rongeurs (Rodentia). **Trav. Mus. Hist. Nat. "Grigore Antipa"**. 8: 929-938. (with M. Hamar)

1969

Ctenophthalmus fransmiti a new species of fleas from Romania. **Acta Parasitologica, Praha** 16: 159-163.

Ctenophthalmus capriciosus carpathicus (Siphonaptera) ssp. n. from Romania. **Acta Entomologica Bohemoslovaca** 66(4): 240-247.

Sifonaptere parazite la mamifere mici (Insectivora, Rodentia) din Romania. **Comun. Zool. Soc. Sti. Nat., Conferinta Nationala de Entomologie** 20: 291-303. (with M. Hamar)

1970

Contributiuni la studiul sistematic, ecologic si zoogeografic al sifonapterelor din Romania (Siphonaptera Latreille). **Rezumat teza doctorat. Centr. Multipl. Univ. Bucur-esti.** 73 pp.

1971

Date ecologice asupra sifonapterelor parazite pe mamifere mici (Insectivora, Rodentia) din Dobrogea de Nord si Delta Dunarii. **Stud. Cerc. Biol. Ser. Zool.** 23(2): 173-184.

Quelques considérations sur la zoogéographie des puces (Siphonaptera) de Roumanie. **I-ière Multicolloque Européen de Parasitologie, Rennes.** 447-449.

1972

Ordinul Siphonaptera. In: *Atlasul Complex Portile de Fier*, Ed. Acad. R. S. R. 57, 173.

Host-Environment interrelations in Siphonaptera. **Conf. Nationala de Parazitologie (Romania)** 409-411.

1973

Quelques considérations zoogéographiques sur les puces (Siphonaptera) de Roumanie en fonction de leurs hôtes. **Revue Roum. Biol., Sér Zool.** 18(2): 111-118.

Ctenophthalmus agyrtes roumanicus n. ssp. (Siphonaptera: Hystrichopsyllidae) from Romania. **Revue Roum. Biol., Ser. Zool.** 18(3): 181-184.

Ctenophthalmus agyrtes Heller in Romania. **Stud. Cerc. Biol., Ser. Zool.** 25, 4: 311-321.

Catalogue of Siphonaptera from Romania. **Stud. Comun. Muz. Sti. Nat. Bacau** 47-72.

Ectoparazitii unor mamifere mici din agrosisteme. **Inst. Prot. Plant.** (Program CAER)

1974

The relationships of fleas with their hosts. **Proceedings of the III International Congress of Parasitology.** München 870-872.

Ectoparazitii unor mamifere mici din agrosisteme Magurele-Brasov. **Inst. Prot. Plant.** (Program CAER) 27 pp.

1975

Ekologiczne i zoogeograficzne aspekty występowania pchły *Nosopsyllus consimilis* Wagner, w Rumunii. **Matr. III Symp Akaro-Entomol Med. Vet., Gdansk** p. 54.

Siphonaptera. In: *Portile de Fier, Monografie*, **Ser. Fauna R. S. R., Ed. Acad. R. S. R.** 295-297.

The collection of fleas in the Natural History Museum of Verona. **Boll. Mus. Civ. Sci. Nat. Verona** 2: 1-12.

Particulars concerning the *Ctenophthalmus* occurring in Romania. **Stud. Comun. Muz. Sti. Nat. Bacau.** 153-160.

1977

Some ecological and zoogeographical aspect of the flea *Nosopsyllus consimilis* (Wagner). **Wiadomosci Parazitologiczne** 23(1-2-3): 59-62.

Cunoasterea parazitofaunei unor rozatoare din agrosisteme (ectoparasiti). **Inst. Prot. Plant.** (Program CAER).

Studies on the fleas of the Retezat Mountains (Romania). **Parasitologica Hungarica** 10: 117-124. (with I. Szabo)

1978

Some data about soricid ectoparasites from Romania. **Proceedings of the IV International Congress of Parasitology.** Warsaw. (with A. Popescu)

The ectoparasites from *Microtus arvalis* and *M. agrestis* occurring in Romania. **Proceedings of the IV International Congress of Parasitology.** Warsaw. (with A. Tuta)

Date privind ectoparazitii sorecidelor (Soricidae: Insectivora) din Romania. **Anal. Univ. Bucuresti** 27: 105-110. (with A. Popescu)

1979

Ectoparazitii si hemoparazitii unor rozatoare din agrosisteme. **Inst. Prot. Plant.** (Program CAER).

Relatiile dintre ectoparazitii si comensalii soareceliu rosu de padure (*Clethrionomys glareolus* Sch.). **Anal Univ. Bucuresti, Biol.** 28: 75-79.

1980

Ectoparazitii unor mamifere mici din agrosisteme. **Inst. Prot. Plant.** (Program CAER).

1981

Aspecte ale distributiei geografice a sifonapterelor (Siphonaptera: Insecta) in Carpatii Sudici. **Stud. Cerc. Biol., Ser. Biol. Anim.** 33(1): 75-81. (with A. Popescu)

On some ectoparasites of *Microtus arvalis* Pallas and *M. agrestis* in the agrosystems of the Brasov Depression. **Revue Roum. Biol. Anim.** 26(2): 177-181. (with A. Tuta)

1982

The parasite-host relationships between fleas (Siphonaptera=Aphaniptera), hematophagous insects and small mammals (Insectivora, Rodentia) in Romania. **Anal Univ. Bucuresti.** (Complete citation not given.)

The role of small mammals in the different ecosystems in Romania in the maintenance and spread of pathologic agents. **Third Inter-national Theriological Congress.** Helsinki. Sect. VII (résumé, with A. Popescu)

1984

Monopsyllus sciurorum sciurorum Sch., a flea appearing as a parasite in mink (*Mustela vison*) farms. **Anal. Univ. Bucuresti.** 33: 63-66. (with T. Ghencea & C. Milla)

1986

Puricii (Siphonaptera). In: Insecte vectoare si generatoare de disconfort. **Ed. Med. Bucuresti.** pp 191-202. (with I. Bilbie & G. Nicolescu)

1991

Taxonomic and zoogeographic data on the genus *Rhadinopsylla* Jordan & Rothschild (Siphonaptera: Hystrichopsyllidae) in Romania. **Trav. Mus. Hist. Nat. "Grigore Antipa"** 31: 265-284. (with F. Aioanei)

In Press

Ordinul Siphonaptera. In: *Fauna ilustrata a Romaniei*, Ed. Stiint. Bucuresti.

Persons wishing reprints of these works should submit a written request to Dr. Suciuc's department at the University of Bucarest, in Bucarest, Romania, c/o Dr. Florin Aioanei.

MISCELLANEA

Following are the few notices received since the last issue

Entoprint is a label printing program that allows its user to print thousands of pin labels with a few key-strokes. It also serializes labels and features other special formatting options. It may be used with laser, ink-jet or dot-matrix printers. It requires System 7 and 4 mb RAM. Available in Macintosh version (#EPM-01) for \$29.95,

Windows ver-sion (#EPW-01) for \$34.95 and a site license version is available for \$125.00. Interested parties should write to: **Entomation**, 2742 Beacon Hill, Ann Arbor, MI 48104-6502. (313) 971 6033. <entomation@aol.com>

While on the subject of labels, there has been much traffic on Entomo-L about computer-generated labels for museum specimens, including the best papers, printers and techniques. These discussions have been archived by Steve Lingafel-ter <lingafel@falcon.cc.ukans.edu> and are available by Gopher or anonymous ftp from <gopher.ent.ia state.edu> (Iowa State's Ento-Gopher Server) in the Discussions directory. The URLs are (do not include any spaces in the addresses): <gopher://gopher.ent.iastate.edu:70/00ftp%3AThomomys%3AEntoGopher%3ADiscussion%3AInsect%20Labels> or <ftp://gopher.ent.iastate.edu/Thomomys/EntoGopher/Discussions/Insect%20Labels>.

A recent United States Department of Agriculture, Agricultural Research Service research report contained the following:

Fleas

Repellents are getting another look against cat fleas. Scientist John Klotz and colleagues tested it [?] and other potential repellents against cat fleas. The most effective: fencholic acid, which cut back on flea bites by more than 85% for 20 days in lab tests. He's also testing boric acid as an insecticide against cat fleas and against ants, including the carpenter, ghost and pharaoh ants. A key advantage of boric acid: it's effective at very low concentrations of 1% or less. Contact: John Klotz, (904) 374 5989.

An insect growth regulator called pyriproxyfen also shows promise for

controlling cat fleas. At concentrations of only 0.025%, pyriproxy-fen reduced fleas by 80% over seven months after being sprayed on infested carpeting. It's effective at much lower rates than fenoxycarb or methoprene, two insect growth regulators that are currently registered for flea control. Pyriproxyfen is near [FDA] approval, pending studies on how long its residues persist. Contact: Richard S. Patterson, (904) 374 5910.

The Honourable Miriam

Rothschild has very kindly passed her collection of some 1500 flea reprints to the library of the Royal Entomological Society, London. Copies of particular papers can be sent to interested parties for a charge of 7p./page (RES Fellows and members) or 14p./page (others). (Postage + VAT extra). Contact Mrs. J.M. Ruffle, Librarian, Royal Entomological Society, 41 Queen's Gate, London, SW7 5HR, UK Telephone: 071-584 8361. Fax: 071-581 8505

The Society of Vector Ecology is an international organization of professional entomologists, biologists, and others whose interests include biology, ecology, research, prevention, and management of insects and other arthropods and organism of public health importance. The Society holds an annual conference in the continental United States, regional meetings, and a European Region conference annually for the purpose of sharing information among its membership.

This year's annual conference will be held at the Holiday Inn University Park in Fort Collins, CO, October 8-11, 1995. For additional information, contact Ms. Justine Keller, P.O. Box 87, Santa Ana, CA 92702. Phone:

(714) 971 2421, Ext. 148. Fax: (714) 971 3940

WANTED-- A copy of G.P. Holland's *The fleas of Canada, Alaska and Greenland (Siphonaptera)*, [1985]. Will pay fair price plus postage. J. Kucera, 5930 S. Sultan Circle, Murray, UT 84107.

For those of you who received copies of; Adams, N.E. & R.E. Lewis, 1995, An annotated catalogue of primary types of Siphonaptera in the National Museum of Natural History, Smithsonian Institution. Smithsonian Contributions to Zoology. Number 560; following are some notes:

P. 72. *Praeopsylla* = *Praeopsylla*
Also, although Beaucournu & Rahm, 1975, indicate that the holotype male and allotype female of *Dinopsyllus (Dinopsyllus) macrochaetus* B. & R., 1975, were deposited in the USNM, these specimens have not been located.

In the March 18th issue of the New Scientist, in a column called *Netro-politan* that concerns itself with network matters is a mention of the file of popular cartoons by the cartoonist Gary Larson in the Entomology Gopher Server here at Iowa State. After a brief discussion the section ends "The same server has other intriguing contents such as 'Flea News', which may sound like something dreamed up by Larson but is actually a twice-yearly publication about...you guessed it."

The following colleagues have provided reprints and other assistance since the last issue of Flea News: N.E. Adams, J.C. Beaucournu, A. Benton, D. Cyprich, L. Durden, M. Krumpál, J. Kucera, LI Chengyi, P. Linardi, LIU Jun, LIU Quan, H.E. Ponce-Ulloa, H. Riebero & WU Hou-yong. Their

cooperation is encouraged and is most appreciated.

~~*~*~*~*

It has been a number of years since we included a list of recipients in an issue of Flea News. Much has happened in the communications world since then, and this, combined with the update request accompanying the last issue, suggests that a revised mailing list might now be appropriate. Where available, I am including e-mail addresses for those with access to electronic mail.

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Although it may not be obvious from
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