

NEAL L. EVENHUIS



The Diptera: Sphaeroceridae Newsletter.

No. 1

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EDITORIAL

SphaeroNews is intended as a means of communication for all those interested in the dipterous family Sphaeroceridae. It aims to cover all aspects of the taxonomy and ecology, both pure and applied, of this interesting group. It is not, however, a primary journal and nomenclatorial changes cannot be reported.

I have received numerous encouraging letters in response to my first circular, and this issue has been compiled from the news, comments, information and lists of publications received. My thanks to those who have shown such immediate interest, I am particularly grateful to Dr Jindrich Rohacek who has made many useful suggestions and designed the splendid heading for SphaeroNews. The figure depicts no particular species although it somewhat resembles an apterous *Aptilotus*.

The success or otherwise of SphaeroNews depends on you as contributors. Please submit any material you consider would be of interest to others, such as news, comments and information. If you have not already done so, please send a list of your publications on Sphaeroceridae, including those in press, for inclusion in subsequent issues. Those of you who have already kindly sent a publication list are encouraged to add to this, as and when papers are submitted for publication.

Subsequent issues of SphaeroNews will appear as and when copy becomes available.

In this issue I have also included publications on Sphaeroceridae by the late Prof. O.W. Richards. If there are any omissions or errors I would be pleased to hear from you. If anyone has similar lists for other authors I would be grateful for copies. Ultimately, between us, we could produce a world bibliography. All of the references listed in this issue are stored on a microcomputer. Additional references will be published in SphaeroNews and added to those already on the microcomputer. At any point in time a separate complete list of all papers on the microcomputer will be available to all contributors, either as hard copy or on disc, on request.

The mailing list currently only includes those to whom the initial circular was sent. Please let me know of anyone you think would be interested to contribute or receive copies of SphaeroNews.

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PROFILES

Mr Miguel Carlos-Tolra

Mr Carlos Tolra studied the Sphaeroceridae of Catalonia, Spain at the University of Barcelona for his Grado de Licenciatura of the Facultad de Biología, which was submitted in September, 1983. He intends to publish the results of his study in the near future and hopes to undertake a project on the Spanish sphaerocerid fauna for his PhD.

Mr Folke Floren

Mr Folke is employed by the Naturhistoriska Riksmuseet, Stockholm. He has one paper in press with Dr Rohacek and is preparing a report on the Swedish sphaerocerids with additional notes on some species in Norway and Denmark.

Dr Brian Laurence

Dr Laurence has recently retired from the London School of Tropical Medicine and Hygiene. He has an interest in all Diptera and a special affection for the Sphaeroceridae from the work he did at Rothamsted Experimental Station for his PhD.

His current interest is in the island fauna of the Northern Isles, Orkney, Shetland and the Outer Hebrides, including the sphaerocerids.

Dr Steve Marshall

Dr Marshall is an Assistant Professor at the University of Guelph, Ontario. His main research area is a revisionary study of the New World Limosininae. He is also interested in Holarctic zoogeography and would welcome east Palaearctic material in this connection.

He is currently revising *Kimosina*; writing a sphaerocerid chapter for a book on Yukon insects; contributing the Sphaeroceridae part of the Australasian / Oceanian catalogue.

In the future he plans to revise *Leptocera* (s.str.), *Pterogramma* and "*Rudolfia*" and extend his work to cover worldwide revisions. Starting next spring, Terry Wheeler, a PhD student, will be working on *Rachispoda*, under Dr Marshall's supervision.

Dr Lorenzo Munari

Dr Munari is a co-operating entomologist at the Museo Civico de Storia Naturale, Venice. He is a dipterist specialising on the systematics, biogeography and ecology of some genera of the families Sciomyzidae, Sepsidae, Tethinidae, Sphaeroceridae and Ephydriidae.

He is currently working on Italian and Mediterranean sphaerocerids and gathering the world literature on the family.

He is preparing his first paper on the Sphaeroceridae, a faunistic study of the Lessini Mountains (Venetia region).

Dr Allen L. Norrbom

Dr Norrbom's interest in the systematics and biology of sphaerocerids began at Pennsylvania State University, where he completed his graduate studies under Prof. K.C. Kim.

He is currently employed by the U.S. Department of Agriculture where his primary duties are research on and identification of phytophagous acalyprates (mainly tephritids).

He plans to restrict his work on the sphaerocerids mainly to the Copromyzinae. He has revised about half of the genera so far and would like eventually to see the entire subfamily monographed, including an analysis of the phylogenetic relationships among the genera.

Dr Norrbom has a revision of *Gymnometopina* in press (with K.C. Kim) and has begun work on *Dudaia* and made some preliminary observations on *Borborillus* and *Archiborborus*.

With Dr Hayashi, he has a paper describing a new species of *Crumomyia* in preparation.

He is also preparing papers on Meigen and Haliday's copromyzid types and has been able to identify most of the copromyzid names (except those of Robineau-Desvoidy) listed as unplaced in the Palaeartic catalogue.

Dr Norrbom maintains a card file of copromyzid names, which he hopes to contribute to the world catalog of Sphaeroceridae.

Dr Brian R. Pitkin

Dr Pitkin is the acalyprate dipterist at the British Museum (Natural History). He has recently completed his PhD on the taxonomy and ecology of British Sphaeroceridae, most of which has been published or is in press. He is a contributor to the Australasian / Oceanian catalogue for 11 acalyprate families (two jointly with Dr N. Evenhuis), excluding the Sphaeroceridae.

In the future he intends to devote some time to phytophagous acalyprates, especially chloropids, but will continue his studies of the family with a revision of the Sphaeroceridae described by O.W. Richards.

Dr Jindrich Rohacek

Dr Rohacek is head of the Department of Entomology at the Silesian Museum, Opava, and since 1973 has been carrying out research on the Sphaeroceridae of Czechoslovakia. His main research projects since 1977 have been.-

- a) The taxonomy, biology and distribution of Sphaeroceridae.
- b) Acalyprate Diptera of selected habitats in North Moravia, Czechoslovakia.

His main interest is in the Limosininae of the Palaearctic region, their taxonomy, supraspecific classification, phylogeny, biology and distribution although he also has a interest in the European Sphaerocerinae and Copromyzinae. Dr. Rohacek is currently involved in.-

- 1) A review of the *Minilimosina* (*Svarciella*) of the world (with Dr Steve Marshall).
- 2) A review of the *Paralimosina* of the world (with Dr Lazlo Papp).
- 3) A monograph of the *Leptocera* (*Rachispoda*) of the West Palaearctic.
- 4) Supplementary studies to monograph the re-classification of *Limosina*.

In the future Dr Rohacek will be.-

- a) Compiling the sphaerocerid volume of the series *Fauna ent.Scand.*.
- b) Revising and classifying the *Opacifrons* of the Palaearctic region.
- c) Co-authoring the world catalogue of Sphaeroceridae.

Prof. Dr. Reinhart Schuster

Prof. Dr. Schuster is a soil zoologist specialising on arachnids, particularly mites. His involvement with the Sphaeroceridae concerned only the wingless *Aptilotus paradoxus*. He does not intend to carry out any further work on the family.

Dr John Sivinski

Dr Sivinski is employed by the U.S. Department of Agriculture in the Insect Attractants, Behavior and Basic Biology Research Laboratory in Gainesville, Florida. He is currently concentrating on tephritid behavior but is also engaged in a single sphaerocerid project, which is an extension on his past work on *Borborillus frigipennis*, a species phoretic on scarab beetles.

PUBLICATIONS ON SPHAEROCERIDAE.

- LAURENCE, B. 1952. Two coprophilous Diptera (Borboridae and Sepsidae) new to Britain. *Ent.mon.Mag.* 88: 81-82.
- LAURENCE, B. 1953. Some Diptera bred from cow dung. *Ent.mon.Mag.* 89: 281-283.
- LAURENCE, B. 1954. The larval inhabitants of cow pats. *J.anim.Ecol.* 23: 234-260.
- LAURENCE, B. 1955a. The ecology of some British Sphaeroceridae (Borboridae, Diptera). *J.anim.Ecol.* 24: 187-199.
- LAURENCE, B. 1955b. Flies associated with cow dung. *Ent.Rec.* 67: 123-126.
- MARSHALL, S.A. 1982. Techniques for collecting and handling small Diptera. *Proc.ent.Soc.Ontario* 113: 73-74.
- MARSHALL, S.A. 1982. The genus *Bromeloecia* Spuler in North America (Diptera: Sphaeroceridae: Limosininae). *Proc.ent.Soc.Wash.* 85: 32-35.
- MARSHALL, S.A. 1982. A revision of the genus *Halidayina* (Diptera: Sphaeroceridae). *Can.ent.* 114: 841-847.
- MARSHALL, S.A. 1982. A revision of the Nearctic *Leptocera* (*Thoracochoeta*) Duda (Diptera: Sphaeroceridae). *Can.ent.* 114: 63-78.
- MARSHALL, S.A. 1983. A revision of the genus *Aptilotus* Mik in North America (Diptera, Sphaeroceridae). *Can.J.Zool.* 61 (8): 1910-1924.
- MARSHALL, S.A. 1983. *Ceroptera sivinski*, a new species of Sphaeroceridae (Diptera) in a genus new to North America, associated with scarab beetles in Southeastern United States. *Proc.ent.Soc.Wash.* 85: 139-143.
- MARSHALL, S.A. 1984. *Leptocera* (*Pteremis*) Rondani in North America (Diptera, Sphaeroceridae). *Proc.ent.Soc.Wash.* 86 (2): 396-399.
- MARSHALL, S.A. 1985. A revision of the genus *Spelobia* Spuler (Diptera: Sphaeroceridae) in North America and Mexico. *Trans.Amer.ent.Soc.* 111: 1-101.
- MARSHALL, S.A. 1985. A revision of the New World species of *Minilimosina* Rohacek (Diptera: Sphaeroceridae). *Proc.ent.Soc.Ontario* 116: 1-60.
- MARSHALL, S.A. 1985. The genera *Xenolimosina* and *Terrilimosina* (Diptera: Sphaeroceridae) in North America. *Proc.ent.Soc.Wash.* 87 (4): 759-769.
- MARSHALL, S.A. 1986. A revision of the Nearctic species of the genus *Pullimosina* (Diptera, Sphaeroceridae). *Can.J.Zool.* 64: 522-536.
- MARSHALL, S.A. (in press). Systematics of *Bitheca*, a new genus of New World Sphaeroceridae. *Syst.ent.*
- MARSHALL, S.A. & BROWN, B.V. 1984. Sphaeroceridae (Diptera) associated with decaying fungi in Ontario. *Proc.ent.Soc.Ontario* 115: 43-48.
- MARSHALL, S.A. & DADWELL, M.S. (in ms). The Diptera community of decaying seaweed in eastern Canada.
- MARSHALL, S.A. & NORRBOM, A.L. 1985. *Thoracochoeta cubita* (Diptera: Sphaeroceridae), a new species of seaweed fly from California. *Ent.News* 96: 24-26.
- MARSHALL, S.A. & PECK, S.B. 1984. Distribution of cave-dwelling Sphaeroceridae (Diptera) in eastern North America. *Proc.ent.Soc.Ontario* 115: 37-41.
- MARSHALL, S.A. & PECK, S.B. 1985. The origin and relationships of *Spelobia tenebrarum* (Aldrich) a troglotic, eastern North American sphaerocerid fly. *Can.ent.* 117: 1013-1015.
- MARSHALL, S.A. & RICHARDS, O.W. (in press) Sphaeroceridae. In *Manual of Nearctic Diptera*, Part 2. Agriculture Canada Monograph.

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- MARSHALL, S.A. & ROHACEK, J. 1984. A revision of the genus *Telomerina* Rohacek (Diptera, Sphaeroceridae). *Syst.ent.* 9: 127-163.
- MARSHALL, S.A. & ROHACEK, J. (in prep.) A review of *Minilimosina* (*Svarciella*) Rohacek, with descriptions of new species (Diptera, Sphaeroceridae).
- NORRBOM, A.L. 1983. Four acalyptrate Diptera reared from dead horseshoe crabs. *Ent.News* 94 (4): 117-121.
- NORRBOM, A.L. & KIM, K.C. 1984. The taxonomic status of *Lotophila* Lioy, with a review of *L. atra* (Meigen) (Diptera: Sphaeroceridae). *Proc.ent.Soc.Wash.* 86 (2): 305-311.
- NORRBOM, A.L. & KIM, K.C. 1985a. Systematics of *Crumomyia* Macquart and *Alloborborus* Duda (Diptera: Sphaeroceridae). *Syst.ent.* 10: 167-225.
- NORRBOM, A.L. & KIM, K.C. 1985b. Taxonomy and phylogenetic relationships of *Copromyza* Fallen (s.s.) (Diptera: Sphaeroceridae). *Ann.ent.Soc.Am.* 78 (3): 331-347.
- NORRBOM, A.L. & KIM, K.C. 1985c. Taxonomy of the genus *Metaborborus* Vanschuytbroek (Diptera: Sphaeroceridae). *Rev.zool.af.* 99: 17-42.
- NORRBOM, A.L. & KIM, K.C. 1985d. *Scutellisetia mischogaster*, a new apterous species of Sphaeroceridae (Diptera) from South Africa. *Ann.Natal Mus.* 26: 555-557.
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- NORRBOM, A.L. & KIM, K.C. (in press). Taxonomy and phylogenetic relationships of the Afrotropical genus *Gymnometopina* Hedicke (Diptera: Sphaeroceridae). *Rev.Zool.af.*
- NORRBOM, A.L., KIM, K.C. & FEE, F.D. 1984. *Pterogramma cardisomi* sp.n. (Diptera: Sphaeroceridae) from Cocos Island, Costa Rica: Description of adults and immatures. *Brenesia* 22: 285-291.
- PAPP, L. & ROHACEK, J. 1981. New species of the *Paralimosina beckeri*-group from the Canary Is. (Diptera, Sphaeroceridae). *Folia ent.hung.* 57 (2): 143-154.
- PAPP, L. & ROHACEK, J. 1983. Two new cavernicolous taxa of the subgenus *Copromyza* (*Crumomyia*) (Diptera, Sphaeroceridae). *Rev.Suisse Zool.* 90 (3): 751-560.
- PAPP, L. & ROHACEK, J. (in press). Sphaeroceridae (Diptera) of Israel. *Israel J.ent.*
- PENDREIGH, K. & MARSHALL, S.A. (in press). The terrestrial, saprophagous Diptera of an Ontario bog, with special reference to small dung flies (Diptera: Sphaeroceridae). *Proc.ent.Soc.Ontario*
- PITKIN, B.R. 1986. Sphaeroceridae (Diptera) caught in light traps at Rothamsted Experimental Station, Herts., 1980-83. *Ecol.ent.* 11: 309-317.
- PITKIN, B.R. (in press). Sphaeroceridae (Diptera) caught in baited traps at Silwood Park, Berks. *J.nat.Hist.*
- PITKIN, B.R. (in press). Lesser dung flies. Diptera: Sphaeroceridae. *Handb.ident.Br.insects* 10 (5e)
- PITKIN, B.R., COULSON, J.C. & BUTTERFIELD, J. 1985. The distribution and biology of Sphaeroceridae (Diptera) in upland regions of northern England. *The Naturalist* 110: 81-90.
- RICHARDS, O.W. 1927. New species of *Limosina* (Diptera) allied to *L. crassimana* Hal. *Entomologist's mon.mag.* 63: 34-37, 6 figs. (February, 1927).

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- RICHARDS, O.W. 1930. The British species of Sphaeroceridae (Borboridae, Diptera). *Proc.zool.Soc.Lond.* 18 (2): 261-345, 23 figs., 1 pl.
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- RICHARDS, O.W. 1932a. Some breeding and habitat records of British Diptera. *J.ent.Soc.S.Engl.* 1 (1): 11-14. (28 April, 1932).
- RICHARDS, O.W. 1932b. Sphaeroceridae from St. Kilda. *Entomologist's mon.mag.* 68: 262-3. (November, 1932)
- RICHARDS, O.W. 1934. Some breeding records of Diptera. *J.Soc.Br.ent.* 1 (1): 2-3. (May, 1934).
- RICHARDS, O.W. 1938a. Diptera Sphaeroceridae (Borboridae, Cypselidae). Mission scientifique de l'Omo. *Mem.Mus.natn.Hist.nat.Paris* (n.s.) 4 (40): 381-405., 10 figs. (1 Feb, 1938).
- RICHARDS, O.W. 1938b. A species of *Sphaerocera* (Diptera, Sphaeroceridae) new to Britain. *Proc.R.ent.Soc.Lond.* (B) 7 (6): 127-130, 6 figs. (15 June, 1938).
- RICHARDS, O.W. 1939. Some African Sphaeroceridae (Borboridae) in the collection of the British Museum (Diptera). *Proc.R.ent.Soc.Lond.* (B) 8 (4): 68-73. (15 April, 1939)
- RICHARDS, O.W. 1941. Sphaeroceridae (Diptera) collected by the British Graham Land Expedition, 1934-37. *British Grahamland Expedition 1934-37 Scientific Reports* 1 (7): 323-6, 1 fig. (21 February, 1941).
- RICHARDS, O.W. 1944. *Leptocera downesi* sp.n. (Diptera, Sphaeroceridae) breeding in sprouting wheat. *Proc.R.ent.Soc.Lond.* (B) 13 (11-12): 137-9, 6 figs.
- RICHARDS, O.W. 1946. On some Sphaeroceridae (Diptera) from the Island of Guam. *Proc.R.ent.Soc.Lond.* (B) 15 (11-12): 129-131. (23 December, 1946).
- RICHARDS, O.W. 1950. New species of Sphaeroceridae (Diptera) found with driver ants (Dorylinae) by S. Patrizi and F. Meneghetti. *Boll.Ist.Ent.Univ.Bologna* 18 (1950): 14-23 (10 March, 1950).
- RICHARDS, O.W. 1951a. Brachypterous Sphaeroceridae. *British Museum (Natural History) Ruwenzori Expedition 1934-5*. 2 (8): 829-851. (April, 1951).
- RICHARDS, O.W. 1951b. New species of the genus "*Safaria*" Richards and of "*Sphaerocera*" Latreille (Dipt., Sphaeroceridae). *Boll.Ist.Ent.Univ.Bologna* 18 (1951): 268-271, 3 figs. (10 December, 1951).
- RICHARDS, O.W. 1952a. Sphaeroceridae (Diptera) from Hawaii. *Proc.Hawaii.ent.Soc.* 14 (3): 429-431 (12 March, 1952).
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- RICHARDS, O.W. 1953 Two new African species of *Ceroptera* Meigen (Diptera: Sphaeroceridae). *Proc.R.ent.Soc.Lond* (B) 22 (1-2): 5-8. (February, 1953).
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- RICHARDS, O.W. 1955a. Contributions a l'etude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewsky 1953) 31 Diptera Sphaeroceridae. *Anns.Mus.r.Congo Belge* Ser 8 36: 296-301 (Presented 16 May, 1955).

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21 Sphaeroceridae (Diptera). *Revta.chil.Ent.* 4: 73-93, 10 figs. (30 June, 1955).
- RICHARDS, O.W. 1955c. A species of Sphaeroceridae (Diptera) from Campbell Island. *Rec.Dom.Mus.Wellington* 2 (4): 241 (November, 1955).
- RICHARDS, O.W. 1956. A new species of *Leptocera* Olivier from Hawaii (Diptera: Sphaeroceridae). *Proc.Hawaii.ent.Soc.* 16 (1): 135-7, 1 fig. (1 July, 1956).
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- RICHARDS, O.W. 1959. Journey to the High Simien (Northern Ethiopia), 1952-3: Diptera Sphaeroceridae. *J.Linn.Soc.* (Zool) 44 (296): 180-184, 2 figs. (April, 1959).
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- RICHARDS, O.W. 1960c. A genus and species of wingless fly from South Africa (Diptera Sphaeroceridae). *Ann.Natal Mus.* 15 (5): 71-73, 1 fig. (December, 1960).
- RICHARDS, O.W. 1961a. Notes on the names of some Diptera Sphaeroceridae. *Ann.Mag.nat. Hist.* (1960) 13 (3): 561-564 (14 March, 1961).
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