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Newsletter of the International Association of Meiobenthologists

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## EDITORIAL

You will note that a membership list is included in this issue. According to our latest records 186 of the 386 "members" on the list (or 48.2%) have not yet paid their 1978 dues. Of these, 68 (17.6 % of the total) have not paid beyond 1976 and 42 (10.9 % of the total) have not paid beyond 1975.

Our actual cost for the first two issues represent \$0.60 per copy (X 400 copies per issue). This means that the cost of production and mailing of 4 issues per year uses \$2.40 (80 %) of the dues collected per member. This leaves but a small amount per person year to cover other expenses, such as other communication, bank expenses, and issues for retired members or those for whom it is impossible to export currency. The only reason we are covering our expenses is that many have donated time or money. With the dues set at the break-even point, it is difficult to maintain the newsletter unless all members keep their dues current.

The February issue of PSAMMONALIA, Number 39, included a date on the address label that indicated the last year for which dues were paid for each member. If you are uncertain about your status, or if your records do not agree with ours, please contact the treasurer, Lee Pollock, directly. We hope that you all find the newsletter of value, and that additional dues will be received from those whose dues are not paid at least through 1978. It will not be possible to continue to send the newsletter to those who are not supporting it. The next issue, Number 41, will be the final one for those whose dues are unpaid at the time it is printed, in early August. Our thanks to the many who have brought their dues up to date over the last several months.

## NEWS FROM THE MEMBERS

From: Katherine Munson, PO Box 222, Hayes, VA 23072 USA  
For my master's thesis, I am investigating the ecology of the meiobenthos of a freshwater tidal marsh on the James River in Virginia. Using several multivariate techniques, such as ordination, cluster analysis, and multidimensional scaling, I am attempting to correlate meiofaunal distribution patterns with sediment content, extent of tidal inundation, and the presence/absence of vegetation. I hope to complete my thesis this summer.

I would be interested in hearing from fellow meiobenthologists engaged in freshwater research. Although I am anxious to get in touch with people in this area of interest (most of the work has been done in marine or estuarine environments), I am also searching for a suitable doctoral program and/or employment possibilities.

From: William D. and Margaret R. Hummon, Dept. Zoology and Microbiol., Ohio University, Athens, OH 45701 USA  
In mid-August, 1978, just after mailing Issue # 41 of PSAMMONALIA, we will travel to Aberdeen, where Bill will be at DAFS Marine Laboratory for a year. He will be carrying out systematic and zoogeographical studies on marine gastrotrichs from all coastal areas of the UK, in preparation for the later publication of a volume in a series, to be entitled Synopses of the British Fauna - Marine Gastrotricha. Meg will be on leave of absence from her graduate program and research on fine structure of a freshwater gastrotrich. Our daughters will attend Scottish schools: we look forward to an interesting year.

From: Wayne A. Evans, Dept. Zoology and Microbiology, Ohio University, Athens, OH 45701 USA.  
I am a graduate student at Ohio University, conducting research on the population dynamics and community structure of the psammic Rotifera of acid mine polluted streams in southeastern Ohio. I am especially interested in the effects of seasonal changes and environmental variability on reproductive rate and niche overlap. This summer I will be at the Franz Theodore Stone Laboratory studying psammic Rotifera of Western Lake Erie. One of the major hurdles I face is in gathering sufficient literature to permit identification of the Rotifera to species. Any reprints or literature citations that readers of PSAMMONALIA could bring to my attention would be greatly appreciated.

## ANNOUNCEMENTS OF MEETINGS

The American Society of Zoology will hold its annual meeting in Richmond, VA, USA, December 27-30, 1978. A contributed paper session on Meiofauna will be jointly sponsored by the Divisions of Invertebrate Zoology and Ecology. For further information, contact: ASZ Business Office, Box 2739, California Lutheran College, Thousand Oaks, CA 91360 USA.

The 13th European Marine Biology Symposium will be held 27 Sept. to 4 Oct., 1978, Isle of Man, UK. The symposium topic is: "Cyclic Phenomena in Marine Plants and Animals." Several papers on meiofauna are included among the papers accepted for presentation. Those interested in attending should contact, as soon as possible: EMBS Symposium Office, Department of Marine Biology, University of Liverpool, Port Erin, Isle of Man, UK. (Telephone: Port Erin (0624) 832027.)

Proceedings of the Sixth International Symposium  
on Ostracoda (Saalfelden, Salzburg)

Edited by H. Löffler and D. Danielopol

1977 XII and 521 pp., 155 figs.; 24 plates; 51 tables. Cloth.  
ISBN 90 6193 581 4. Dutch Guilders 150,00

The sixth International Symposium on Ostracoda (Saalfelden, Salzburg, 30.7.1976-3.8.1976) was devoted mainly to the ecology and zoogeography of both recent and fossil representatives of this group. In contrast to other crustaceans - especially copepoda - ecological and zoogeographical orientated research on ostracoda so far has received only little attention. Therefore it seemed worthwhile to stimulate an international debate about these subjects and the results are now presented, which leave no doubt that our knowledge is increasing rapidly. Of the 101 participants 51 contributed papers and it is hoped that their papers will be a stimulus for further work.

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### II. General aspects and morphology

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RECENT LITERATURE

- Aissa, P. and P. Vitiello. 1977. Nouvelles espèces de nematodes libres de la Lagune de Tunis. Bull. Soc. Sci. Nat. Tunisie, 12: 45-52.
- Bartsch, I. 1977. Eine neue Actacarus-Art (Acari, Malacaridae) aus dem Bathyal vor der Küste von North Carolina, USA. Zool. Scripta 6: 323-326.
- Benazzi, M. and N. Gourbault. 1977. Dugesia perkinsae n. sp., a freshwater triclad (Turbellaria) from Texas. Trans. Amer. Micros. Soc., 96: 540-543.
- Bodin, P. 1977. Description of two species of harpacticoid copepods in experimental ecosystems of Roscoff. Cah. Biol. Mar. 18: 311-324.
- Boday, A., A. Dinét, H. Masse and C. Nodot. 1977. Incidence de l'acclimation sur la tolérance thermique de Cerithium vulgatum (Mollusque Gastéropode) et d'Asellopsis duboscqui (Crustacé Harpacticoidé). Tethys, 8: 105-110.
- Boucher, G. 1977. Nématodes des sables fins infralittoraux de la Pierre Noire (Manche Occidentale). IV. Enoplida. Bull. Mus. Natn. Hist. Nat., Paris, Zool. 315: 733-752.
- Bowen, M. 1976. Effects of a thermal effluent on the ostracods of Par Pond, South Carolina, pp. 219-226. IN: Thermal Ecology, Vol. 4, J.W. Gibbons and A. Sharitz, Eds., US Dept. of Energy, SREL, Aiken, SC.
- Breman, E. 1976. Five Ostracod species from Adriatic deep-sea sediments. Koninkl. Nederl. Akad. v. Wetensch. Amsterdam 79, B, 1:10-17.
- Burkovsky, I.V. 1978. Structure, dynamics and production of a community of marine psammophilous ciliates. Zool. Zh. 57: 325-337. (In Russian).
- Byers, S.C., E.L. Mills, P.L. Stewart. 1978. A comparison of methods for determining organic carbon in marine sediments with suggestions for a standard method. Hydrobiologia 58: 43-48.
- Chamroux, S., G. Boucher and P. Bodin. 1977. Etude expérimentale d'un écosystème sableux. II. Evolution des populations de bactéries et de méiofaune. Helgoländer Wiss. Meeresunters, 30: 163-177.
- Coineau, N. and J. Renaud-Mornant. 1977. Etude anatomique des Isopodes interstitiels, II. Morphologie fonctionnelle et évolution saisonnière de l'appareil génital femelle d'Angeliiera phreaticola Chappuis et Delamare Deboutteville, 1952. Arch. Zool. Exp. Gén. 118:349-366.
- Conrad, J.E. 1976(1977). Sand grain angularity as a factor affecting colonization by marine meiofauna. Vie Milieu 26:181-198.
- Danielopol, D.L. 1976(1977). Supplementary data on Pussella botosaneanui Danielopol, 1973 (Ostracoda, Bairdiidae) Vie Milieu 26(2A): 261-274.
- Danielopol, D.L. 1978. Introduction to Groundwater Ecology. (Lecture Notes for the Unesco Training Course in Limnology). 47 pp. Limnol. Inst. Vienna.
- Dinét, A. 1977. Données quantitatives sur le méiobenthos bathyal de la Mer de Norvège, pp. 13-14. IN: Géochimie organique des sédiments marins profonds, Orgon I, Mer de Norvège, Aout 1974. CEPM-CNEKO, Comité Etudes Géo-Chim. Mar., CNRS.
- Danielopol, D.L., K.G. McKenzie. 1977. Psychrodomus gen. n. (Crustacea, Ostracoda), with redescription of the cypridid genera Prinocypris and Ilyodromus. Zool. Scripta 6:301-322.
- Dean, H.K. 1977. Two new Kalyptorhynchia (Turbellaria) from the coast of northern New England, USA. Zool. Scripta, 6: 265-274.
- Decraemer, W. 1977. Scientific report on the Belgian expedition to the Great Barrier Reef in 1967. Nematodes IX. Four new species of Quadricoma Filipjev (Nematoda, Desmoscolecida). Zool. Scripta, 6: 275-292.
- Decraemer, W. 1978. Morphological and taxonomic study of the genus Tricoma Cobb (Nematoda, Desmoscolecida), with the description of new species from the Great Barrier Reef of Australia. Aust.

J. Zool., suppl. 55: 1-121.

Dinet, A. 1977. Listed after Danielpol, 1976(1977).

Domenici, L. and V. Gremigni. 1977. Fine structure and functional role of the coverings of the eggs in Merostoma ehrenbergii (Focke)(Turbellaria, Neorhabdozoa). Zoomorphologie 88:247-258.

Durand, J.P. and Gourbault, M. 1977. Etude cytologique des organes photorécepteurs de la planaire australienne Cura pinguis. Canad. J. Zool., 55:381-390.

Ebert, S. and W. Noodt. 1975. Canthocampidae aus Limnopsammon in Chile (Copepoda, Harpacticoida). Bewässer u. Abwässer, 57/58:121-140.

Elliott, J.M. and P.A. Tullett. 1978. A bibliography of smaplers for benthic invertebrates. Freshwater Biol. Assoc. Occas. Publ. 4, 61 pp.

Elmgren, R. 1977. Baltic benthos communities and the role of the meiofauna. Contr. Asko Lab., 14:1-31.

Erseua, C. 1977. Marine Oligochaeta from the Koster area, west coast of Sweden, with descriptions of two new Enchytraeid species. Zool. Scripta 6:293-298.

Erseus, C. and P. Lasserre. 1977. Redescription of Grania monchaeta (Michaelsen) a marine enchytraeid (Oligochaeta) from South Georgia (SW Atlantic). Zool. Scripta 6:300-301.

Faubel, A. 1977. The distribution of Acoela and Macrostomida (Turbellaria) in the littoral of the North Frisian Islands, Sylt, Rømø, Jorsand, and Amrum (North Sea). Senckenbergiana Marit., 9:59-74.

Fox, L.R. 1977. Species richness in streams - an alternative mechanism. Amer. Natur., 111:1017-1021.

Gerlach, S.A. 1977. Attraraction to decaying organisms as a possible cause for distribution of nematodes in a Bermuda beach. Ophelia, 16:151-166.

Gerlach, S.A. 1978. Food-chain relationships in subtidal silty-sand marine sedi-

ments and the role of meiofauna in stimulating bacterial productivity. Oecologia (Berl.), 33:55-70.

Gourbault, M. 1977. Karyology of Dugesia arizonensis Kenk (Turbellaria:Tricladida). Caryologia, 30:63-68.

Gourbault, T. and M. Benazzi. 1977. Etude caryologique du genre Atrioplanaria (Triclade paludicole). Arch. Zool. Exp. Gén., 118:53-61.

Hartwig, E., G. Gluth and W. Wieser. 1977. Investigations on the ecophysiology of Geleia nigriceps Kahl (Ciliophora, Gymnostomata) inhabiting a sandy beach in Bermuda. Oecologia (Berl.) 31:159-176.

Heip, C., M. Smol and V. Absillis. 1978. Influence of temperature on reproductive potential of Oncholaimus oxyuris (Nematoda, Oncholaimidae). Mar. Biol. 45: 255-260.

Holopainen, I. and L. Paasivirta. 1977. Abundance and biomass of the meiozoobenthos in the oligotrophic and mesohumic of Lake Paajarvi, southern Finland. Ann. Zool. Fenn., 14:124-134.

Hunter, J. and D.R. Arthur. 1978. Some aspects of the ecology of Peloscolex benedeni Undekem (Oligochaeta, Tubificidae) in the Thames Estuary. Est. Coast Mar. Sci., 6:197-208.

Ito, T. 1977. New species of marine harpacticoid copepods of the genera Harpacticella and Tigriopus from the Bonin Islands, with reference to the morphology of copepodid stages. Jour. Fac. Sci. Hokkaido Univ., Ser. VI, Zool. 21:61-91.

Jamieson, B.G.W. 1977. Marine meiobenthic Oligochaeta from Heron and Wistari Reefs (Great Barrier Reef) of the genera Clitellio, Limnodriloides and Phalldrillus (Tubificidae) and Grania (Enchytraeidae). Zool. J. Linn. Soc. 61:329-350.

John, P.H. and M.A. Lock. 1977. The spacial distribution of groundwater discharge into the littoral zone of a New Zealand Lake. Jour. Hydrol. 33:391-395.

Knox, G.A. and G.D. Fenwick. 1977. Chiltoniella elongata n. gen. et sp.

- (Crustacea:Gephalocarida) from New Zealand. Austrian Alps. Ann. Zool. Fenn. 14:224-227. Jour. Roy. Soc. N.Z. 7:425-432.
- Kohout, F.A., et. al. 1977. Fresh ground-water stored in aquifers under the continental shelf: implications from a deep test, Nantucket Island, Massachusetts. Water Res. Bull. 13:373-386.
- Kolmel, R. 1977. Ökosysteme im Wechsel zur anaerobiosa Zoobenthos und abbau in zeitweise anoxischen Biotopen der Kieler Bucht. PhD Dissertation, Univ. Kiel .
- Kornicker, L.S. and F.S. Carraion. 1978. West African myocopid Ostracoda (Sarsiellidae, Rutidermatidae). Smith. Contr. Zool. 250:110 pp.
- Latter, P.M. 1977. Axenic cultivation of an enchytraeid worm, Cognettia spagnetorum. Oecologia (Berl.) 31:251-254.
- Levinton, J.S. and G.R. Lopez. 1977. A model of renewable resources and limitation of deposit-feeding benthic populations. Oecologia (Berl.) 31:177-190.
- Liebau, A. 1977. Homologous sculpture patterns in Trachyleberididae and related Ostracods. 93 pp. US Dept. Commerce, NTIS, Springfield, VA.
- Löffler, H. and D. Danielopol, Ed. Aspects of Ecology and Zoogeography of Recent and Fossil Ostracoda. Junk Bv., the Hague. 521 pp.
- Moriarty, D.J.W. 1977. Quantification of carbon, nitrogen and bacterial biomass in the food of some penaeid prawns. Aust. Jour. Mar. Freshwater Res. 28:113-118.
- Muller, W.A. and J.J. Lee. 1977. Biological interactions and the realized niche in Euplotes vannus from the salt marsh aufwuchs. Jour. Protozool. 24 :523-527.
- Noll, M. 1976. Der Langsam-sandfilter-Ein Extrembiotop. Verhandl. Ges. Ökologie Göttingen. :437-466. Junk BV., the Hague.
- Noodt, Q. 1977. Syncarida, pp. 146-148. In: Biota Acutica de Sudamerica Austral. S.H. Hulbert, ed. San Diego State Univ., San Diego, Calif.
- Nurminen, M. 1977. Enchytraeidae (Oligochaeta) from the Grossglockner region of the
- Petrovski, T.K. 1977. Cubanocleta noodti n. gen., n. sp. ein neuer Harpacticoida (Crustacea, Copepoda) aus dem hyporheal Kubas. Frag. Balcanica. Mus. Maced. Sci. Nat. (Skopje) 10:57-68.
- Platt, H.M. 1977. Vertical and horizontal distribution of free-living marine nematodes from Gt. Lough, North Ireland. Cah. Biol. Mar. 18:261-274.
- Prejs, K. 1977. Nematodes of root region of aquatic macrophytes, with special consideration of nematode groupings penetrating tissues of roots and rhizomes. Ekologia Polska 25:5-20.
- Prejs, K. 1977. Littoral and profundal benthic nematodes of lakes with different trophy. Ekologia Polska 25:21-30.
- Prejs, K. 1977. Species diversity: numbers and biomass of benthic nematodes in central part of lakes with different trophy. Ekologia Polska 25:31-44.
- Renaud-Mornant, J. and M.N. Helleouet. 1977. Rapport micro méiobenthos et Halo-deima atra (Holothurioidea) dans un lagon Polynésien (Tiahura, Moorea, Ile de la Société). Bull. Mus. Natn. Hist. Nat., Pris, 3e sér. no. 474, Zool 331:853-865.
- Reuter, M. 1977. Ultrastructure of the stylet protractor muscle in Gyratrix hermaphroditus (Turbellaria, Rhabdocoela). Acta Zool. 58:179-184.
- Rosenfeld, A. 1977. Die rezenten Ostracoden-Arten in der Ostsee. Meyniana, 29:11-29.
- Ruffo, S. and U. Schiecke. 1976. Una nuova Bogidiella di Creta. Boll. Mus. Civ. St. Nat. Verona 3:147-155.
- Ruppert, E.E. 1978. The reproductive system of gastrotrichs. II. Insemination in macrodasys: a unique mode of sperm transfer in metazoa. Zoomorphologie, 89: 207-223.
- Salvini-Plawen, L.V. 1977. Caudofoveata (Mollusca) Pripulida and apodous holothurion (Lapidoplax myriothrochus) off Banyuls and throughout the Mediterranean. Vie Milieu 27:55-82.

- Sarvala, J. 1977. The naupliar development of six species of freshwater harpacticoid Copepoda. *Ann. Zool. Fenn.* 14:135-161.
- Sarvala, J. and E. Ranta. 1977. Performance of the Maus sampler in surveys of brackish-water macrofauna. *Ann. Zool. Fenn.* 14:191-197.
- Schiecke, U. 1976. Eine marine Ingolfiella (Amphipoda: Ingolfiellidae) im Golf von Neapel: Ingolfiella ischitana n. sp. *Boll. Mus. Civ. St. Nat. Verona* 3:413-420.
- Schmidt, P. and W. Westheide. 1977. Insterstitielle Fauna von Galapagos. XVII. Polygordiidae, Saccocirriidae, Protodrilidae, Merillidae, Dinophilidae (Polychaeta). *Mikrofauna Meeresboden*, 62:1-38.
- Schuster, R.O., E.C. Toftner and A.A. Grigarick. 1977. Tardigrada of Pope Beach, Lake Tahoe, California. *Wasmann Jour. Biol.*, 35:115-136.
- Springett, J.A. and P.M. Letter. 1977. Studies on the micro-fauna of blanket bog with particular reference to Enchytraeidae. *Jour. Anim. Ecol.* 46:959-973.
- Teuchert, G. 1977. The ultrastructure of the marine gastrotrich Turbanella cornuta Remane (Macrodasyoidea) and its functional and phylogenetic importance. *Zoomorphologie* 83:189-247.
- Thompson, J.C. and J.M. Groom. 1977. Systematics and ecology of ciliated protozoa from King George's Island, South Shetland Islands. *Antarctic Research Series. Biology of the Antarctic Seas*, 27:41-67.
- Tshesunov, A.B. 1978. New nematodes of the order Araeolanida from the Caspian and North Caspian Sea. *Zool Zh.* 57:19-26. (In Russian).
- Vitiello, P. 1976. Peuplements de nematodes marins des fonds envasés de Provence II. Fonds détritiques envasés et vases bathyaes. *Ann. Institut. Oceanogr. Paris*, 52:283-311.
- Walz, B. 1978. Electron microscopic investigation of cephalic sense organs of the Tardigrade Macrobiotus hufelandii C.A.S. Schultze. *Zoomorphologie* 89:1-20.
- Westheide, W. and M. von Basse. 1978. Chilling and freezing resistance of two interstitial polychaetes from a sandy beach. *Oecologia (Berl.)* 33: 45-54.
- Westheide, W. and G.C. Bao. 1977. Some species of genus Hesionides (Polychaeta, Hesionidae) from Indian sandy beaches. *Cah. Biol. Mar.* 18: 275-288.
- Wiederholm, T. and L. Eriksson. 1977. Benthos of an acid lake. *Oikos* 29: 261-267.
- Zarkanellas, A.I. and C.D. Bogdanos. 1977. Benthic studies of a polluted area in the upper Saronikos Golf (Greece). *Thalassographica* 1:155-177.
- ADDENDUM
- Berger, J. 1978. Quantification of ciliophoran species descriptions: an appeal to reason. *Trans. Amer. Microsc. Soc.*, 97:121-126.
- Coull, B.C. and E.W. Hogue. 1978. Revision of Apodopsyllus (Copepoda, Harpacticoida), including two new species and a redescription. *Trans. Amer. Microsc. Soc.*, 97:149-159.
- Davis, P.G., D.A. Caron and J. McN. Sieburth. 1978. Oceanic anoebae from the North Atlantic: culture, distribution and taxonomy. *Trans. Amer. Microsc. Soc.*, 97: 73-83.
- Gates, W.A. 1978. An essay on the principles of ciliate systematics. *Trans. Amer. Microsc. Soc.*, 97:221-235.
- Higgins, R.P. 1977. Two new species of Echinoderes (Kinorhyncha) from South Carolina. *Trans. Amer. Microsc. Soc.*, 96:340-354.
- Higgins, R.P. 1978. Echinoderes gerardi n.sp. and E. riedli (Kinorhyncha) from the Gulf of Tunis. *Trans. Amer. Microsc. Soc.*, 97:171-180.
- Spoon, D.M. and R.S. Blanquet. 1978. Life cycle and ecology of the minute hydrozoan Microhydrula. *Trans. Amer. Microsc. Soc.*, 97:208-216.
- Taft, C.E. 1978. A mounting medium for fresh-water plankton. *Trans. Amer. Microsc. Soc.*, 97:263-264.

4. Addition to the Bibliography of the Interstitial Ciliates  
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by

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published so far: PSAMMONALIA 24; PSAMMONALIA 27 (1. addition);  
PSAMMONALIA 31 (2. addition); PSAMMONALIA 34  
(3. addition).

Legend regarding contents of papers:

- (B) Biology, morphology, fine structure
- (D) Distribution, biogeography, ecology
- (G) General and review
- (M) Methods
- (O) Original description(s)
- (P) Physiology, ecophysiology
- (S) Systematic, taxonomy.

- ASHBY, R.E., 1976. Long term variations in a protozoan chemostat culture. *J. exp. mar. Biol. Ecol.* 24: 227-235. (G,M,P)
- BARNES, R.S.K.; SATTELLE, D.B.; EVERTON, I.J.; NICHOLAS, W. & SCOTT, D.H., 1976. Intertidal sands and interstitial fauna associated with different stages of salt-marsh development. *Estuarine and Coastal Marine Science* 4: 497-511. (D)
- BURKOVSKY, I.V., 1978. Structure, dynamics and production of a community of marine psammophilous ciliates. *Zool. Zhurnal* 57(3): 325-337. (D)
- CORLISS, J.O., 1976. On lumpers and splitters on higher taxa in ciliate systematics. *Trans. Amer. Micr. Soc.* 95: 430-442. (G)
- CORLISS, J.O., 1977. Annotated assignment of families and genera to the orders and classes currently comprising the Corlissian scheme of higher classification for the phylum Ciliophora. *Trans. Amer. Micr. Soc.* 96: 104-140. (G,S)
- CORLISS, J.O. & HARTWIG, E., 1977. The "primitive" interstitial ciliates: their ecology, nuclear uniquenesses, and postulated place in the evolution and systematics of the phylum Ciliophora. *Mikrofauna Meeresboden* 61: 65-88. (G)
- CZAPIK, A., 1965. *Prorodon raabei* sp. n. et sa biologie. *Acta Protozool.* 3:21-22. (B,O)
- CZAPIK, A. & JORDAN, A., 1976. Les ciliés psammophiles de la mer Baltique aux environs de Gdansk. *Acta Protozool.* 15(4):423-445. (D,S)

- DRAGESCO, J.; IFTODE, F. & FRYD-VERSAVEL, G., 1974. Contribution à la connaissance de quelques Ciliés Holotriches Rhabdophores. I. Prostomiens. *Protistologica* 10: 59-75. (B,S)
- DZHURTUBAEV, M. M., 1977. Species composition and vertical distribution of psammophilic infusorians in Odessa Bay. *Gidrobiologisk Zhurnal* 13(2): 73-77 (in Russian). (D,S)
- FAURE-FREMIET, E., 1967. Chemical aspects of ecology. *From: Chemical ecology* (Ed.: M. Florin & B.T. Scheer), Vol. I. Protozoa. (Ed.: G. W. Kidder): 21-54, Academic Press, New York. (D,P)
- FAURE-FREMIET, E. & GANIER, M.-Cl., 1969. Morphologie et structure fine du Cilié *Chaenea vorax* Quenn. *Protistologica* 5: 353-361. (E)
- FENCHEL, T.; PERRY, T. & THANE, A., 1977. Anaerobiosis and symbiosis with bacteria in free-living Ciliates. *J. Protozool.* 24: 154-163 (B,D)
- FERNANDEZ-GALIANO, D., 1976. Silver impregnation of ciliated Protozoa: procedure yielding good results with the pyridinated silver carbonate method. *Trans. Amer. Micros. Soc.* 95(4):557-560. (M)
- FRYD-VERSAVEL, G.; IFTODE, F. & DRAGESCO, J., 1975. Contribution à la connaissance de quelques Ciliés Gymnostomes. II. Prostomiens, Pleurostomiens: Morphologie, stomatogenèse. *Protistologica* 11: 509-530. (B,S)
- GOODE, D., 1975. Evolution of mitosis in Protozoa: the association of chromosomes, nuclear envelope, kinetochores and microtubules. *Biosystems* 7: 318-325. (B,G)
- HARTWIG, E., 1977. On the interstitial ciliate fauna of Bermuda. *Can. Biol. Mar.* 18:113-126. (D,S)
- HARTWIG, E.; GLUTH, G. & WIESER, W., 1977. Investigations on the ecology and physiology of *Geleia nigriceps* Kahl (Ciliophora, Gymnostomata) inhabiting a sandy beach in Bermuda. *Oecologia* 31: 159-175. (D,I)
- HARTWIG, E. & PARKER, J.G., 1977. On the systematics and ecology of interstitial ciliates of sandy beaches in North Yorkshire. *J. mar. biol. Ass. U. K.* 57: 735-760. (D,O,S)
- JONES, S.W. & GOULDER, R., 1973. Swimming speeds of some ciliated Protozoa from eutrophic pond. *Naturalist* 924: 33-35. (D)
- KACZANOWSKI, A., 1965. About a presumable phylogenetic link between *Mesnillella* (Astomata) and *Conchostoma longissimum* Fauré-Fremiet (Trichostomata). *Acta Protozool.* 3: 225-232. (B,D,S)
- KOVALEVA, V.G. & RAIKOV, I.B., 1970. Ultrastructure of micronuclei and of diploid macronuclei of the lower ciliate *Trachelonema sulcata*. *Tsitologiya* 12: 1446-1455 (in Russian, with English Summary) (B,S)
- KOVALEVA, V.G. & RAIKOV, I.B., 1973. Ultrastructure de l'appareil nucléaire de *Trachelonema sulcata*, Cilié holotriche gymnostome à macronoyaux diploïdes. *Protistologica* 9: 471-480. (B,S)



- KOVALEVA, V.G.; RAIKOV, I.B. & VINNIKOVA, N.V., 1977. Fine structure of macronucleus of the marine psammophilic ciliate *Helicoprordod gigas* (Kahl). *Tsitologiya* 19(6): 592-597 (in Russian, with English summary). (B,S)
- LÜPKES, G., 1976. Die vertikale Verteilung von Ciliaten im Stygo-rhithral der Fulda (Beitrag zur Kenntnis mesopsammaler Ciliaten in Fließgewässern). *Int. J. Speleol.* 8: 127-133. (D,O,S)
- LWOFF, A., 1936. Le cycle nucléaire de *Stephanopogon mesnili* Lw. (Cilié homocaryote). *Arch. Zool. Exp. Gen.* 78: 117-132. (B,S)
- NOLAND, L.E. & GOJDICS, 1967. Ecology of free-living Protozoa. *Front Research in Protozoology* (Ed.: Tze-Thun Chen), Vol. 2: 216-266, Pergamon Press, (D)
- PARKER, J.G., 1976. Cultural characteristics of the marine ciliated protozoan, *Uronema marinum* Dujardin. *J. exp. mar. Biol. Ecol.* 24: 213-226. (D,G,M)
- PERSONNE, G. & UYTTERSROT, G., 1975. The influence of inorganic pollutants on the rate of reproduction of a marine hypotrichous ciliate: *Euplotes vannus* Müller. *Rev. Intern. Oceanogr. Med.* 37: 125-151. (D,P)
- POLJANSKY, G.I. & RAIKOV, I.B., 1961. Nature et origine du dualisme nucléaire chez les Infusoires ciliés. *Bull. Soc. Zool. Fr.* 86: 402-411. (G)
- POLJANSKY, G.I. & RAIKOV, I.B., 1976. Polymerization and oligomerization phenomena in Protozoan evolution. *Trans. Amer. Micr. Soc.* 95(3): 314-326. (G)
- RAIKOV, I.B., 1959. Der Formwechsel des Kernapparates einiger niederer Ciliaten. II. Die Gattung *Loxodes*. *Arch Protistenk.* 104:1-42. (B,S)
- RAIKOV, I.B., 1959. Cytological and cytochemical peculiarities of the nuclear apparatus and its division in the holotrichous ciliate *Geleia nigriceps* Kahl. *Tsitologiya* 1: 566-579. (in Russian). (B,S)
- RAIKOV, I.B.; CHEISSIN, E.M. & BUZE, E.G., 1963. A photometric study of DNA content of macro- and micronuclei in *Paramecium caudatum*, *Nassula ornata* and *Loxodes magna*. *Acta Protozool.* 1: 285-300. (B, S,M)
- RAIKOV, I.B., 1972. Ultrastructure des "capsules nucléaires" (noyaux composées) du Cilié psammophile *Kentrophoros latum* Raikov, 1962. *Protistologica* 8(3): 299-313. (B,S)
- RAIKOV, I.B., 1972. Nuclear phenomena during conjugation and autogamy in ciliates. In: *Research in Protozoology* (Ed.: Chen, T.-T.) Vol. 4: 149-289. (G)

- RAIKOV, I.B., 1974. Fine structure of the nuclear apparatus of lower psammobiotic ciliate, *Tracheloraphis dogieli* Raikov. *Acta Protozool.* 13: 85-96. (B,S)
- RAIKOV, I.B., 1975. Fine structure of the nuclear apparatus of the ciliate *Loxodes magnus*. I. Macronuclei, macronuclear anlagen and interphasic micronuclei. *Tsitologiya* 17: 1009-1017 (in Russian, with English summary). (B,S)
- RAIKOV, I.B. & KOVALEVA, V.G., 1977. The fine structure of the nuclear complex of the lower marine ciliate *Tracheloraphis phoenicopterus*. *Tsitologiya* 19(4): 350-355 (in Russian, with English summary). (B,S)
- REPAK, A.J. & ISQUITH, I.R., 1974. The systematics of the genus *Spirostomum* Ehrenberg, 1838. *Acta Protozool.* 12: 325-333. (S)
- SAROJINI, R. & NAGABHUSHANAM, R., 1967. A comparative study of the respiration of some free-living ciliated Protozoa. *J. Anim. Morph. Physiol.* 14: 158-161. (P)
- SMALL, E.B., 1976. A proposed subphyletic division of the phylum Ciliophora Doflein, 1901. *Trans. Amer. Micr. Soc.* 95: 739-751. (G,S)
- TORCH, R., 1964. Autoradiographic studies of nuclei acid synthesis in a gymnostome ciliate, *Tracheloraphis* sp.- *J. Cell. Biol.* 23: 98a. (B,M,S)
- WICKLOW, B.J. & BORROR, A.C., 1977. *Discotricha papillifera*: Structure and morphogenesis of a marine interstitial ciliate. *J. Protozool.* 24(1): 99-108. (B,S)
- WIESER, W. & ZECH, M., 1976. Dehydrogenase as tools in the study of marine sediments. *Mar. Biol.* 36: 113-122. (R,D,P)