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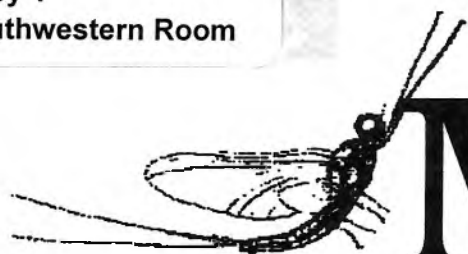
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THE MAYFLY NEWSLETTER

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December 1993

Proceedings of the International Conferences on Ephemeroptera

William L. Peters

Over the last year I have had many questions concerning the availability of the proceedings of the International Conferences on Ephemeroptera. Listed below is information verified by me as of March 1, 1993. Please note that prices often do not include shipping costs and these costs should be quoted to you by the publisher before you order. Often a local dealer can be helpful in placing orders.

The Permanent Committee presently has copies of two proceedings. Copies of the *Proceedings of the Fourth International Conference on Ephemeroptera* are for sale for \$25 US from me [Entomology, Florida A & M University, Tallahassee, Florida 32307 USA] or \$35 CAN from Dr. John F. Flannagan [Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, Canada R3T 2N6]. Copies of these proceedings are no longer available from Dr. Vladimir Landa. Copies of *Overview and Strategies of Ephemeroptera and Plecoptera* will be for sale by the Permanent Committee once The Sandhill Crane Press has sold out. Proceeds from copies sold by the Permanent Committee are placed in our trust fund for conference scholarships.

1. *Proceedings of the First International Conference on Ephemeroptera*. W. L. and J. G. Peters eds., 1973, 312 pages, ISBN 90-04-03590-7 (available from E. J. Brill, 24 Hudson Street, Kinderhook, New York 12160 USA - \$100.75 US plus shipping or P.O. Box 9000, 2300 PA Leiden, The Netherlands - 176 Dfl. plus shipping).

2. *Proceedings of the Second International Conference on Ephemeroptera*. K. Pasternak and R. Sowa eds., 1979, 312 pages, ISBN 83-01-00600-5 (available for literature trade from Institute of Fresh Water Biology, Polish Academy of Sciences, Slawkowska 17, 31-016 Krakow, Poland).

3. *Advances in Ephemeroptera Biology*. J. F. Flannagan and K. E. Marshall eds., 1980, 552 pages, ISBN 0-306-40N357-9 (available from Plenum Publishing Corp., 227 West 17th Street, New York, New York 10011 USA - \$79.50 US plus shipping).

4. *Proceedings of the Fourth International Conference on Ephemeroptera*. V. Landa, T. Soldán and M. Tonner eds., 1984, 345 pages (see comments above).

5. *Mayflies and Stoneflies: Life Histories and Biology*. I. C. Campbell ed., 1990, 366 pages, ISBN 0-7923-0289-3 (available from Kluwer Academic Publishers, P. O. Box 358, Accord Station, Hingham, Massachusetts 02018 USA - \$169.50 US or P.O. Box 322, 3300 AH Dordrecht, The Netherlands - 300 Dfl).

6. *Overview and Strategies of Ephemeroptera and Plecoptera*. J. Alba-Tercedor and A. Sanchez-Ortega eds., 1991, 588 pages, ISBN 1-877743-08-9 (available from The Sandhill Crane Press, Inc., 2406 NW 47th Terrace, Gainesville, Florida 32606 USA - \$85 US plus shipping).



Mayflies in Amber

Dr. George Poinar, Department of Entomological Sciences, University of California, Berkeley, California 94720 USA, wonders if someone would be interested in identifying and perhaps working up some of the Dominican amber mayflies he has accumulated during the past 10 years. These rare forms date from 20 to 40 million years and probably all fall into extant genera. Dr. Poinar can assist by re-shaping the pieces for a better view of specific taxonomic characters and providing black and white photographs using special techniques adapted for amber photography.

Send in the News!

Do you feel a burning desire to brag about one of your undergraduate (see above article) or graduate students or to tell the world about your current research on mayflies? Then this is the place! Just send me a brief note about what is going on in your lab and I will publish it in the next issue of this newsletter. A short summary of current research, plans for upcoming research, request for specimens, and any questions or comments about what is going on regarding mayflies will be cheerfully published.

Mayflies in Sand

Mike Walters, biology student at Southwestern Oklahoma State University, is working with Pete Grant on the life cycles of mayflies (*Brachycercus* and *Cerco-brachys*) inhabiting the sandy-bottomed substrate of a local stream. So far, it appears that the eggs overwinter, with the nymphs appearing around June. Adults emerge during early morning and are very short-lived. This year, nymphs were collected from June through early November.

Mike hopes to present his research at a poster paper session during the NABS meeting in Orlando, Florida, and eventually publish it. He is also in the process of applying to graduate school to study stream ecology.

Addition to Sowa Bibliography

Alain Thomas has an additional publication of Ryszard Sowa to add to those listed in a previous paper (Thomas, A. 1992. A tribute to Ryszard Sowa [1934-1989]. His scientific work. Bull. Soc. Hist. Nat., Toulouse 128:7-10): Sartori, M. and R. Sowa. 1992. New data on some *Rhithrogena* species from the Near and Middle East (Ephemeroptera; Heptageniidae). Aquatic Insects 14:31-40.

PermComm Update

Peter Landolt and Michel Sartori were elected to the Permanent Committee of the International Conferences on Ephemeroptera during the Maine conference. I neglected to include them in the list of members that was published in the last newsletter.

Changes of Address

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1992 Mayfly Bibliography

What follows is the Ephemeroptera portion of the 1992 (1993) North American Benthological Society's *Current and Selected Bibliographies on Benthic Biology*. Don Webb, Chairman of the Literature Review Committee for the Benthological Society, has given me permission to publish this list. Past issues of *The Mayfly Newsletter* have contained "selected" papers dealing with mayflies. The following list is comprehensive and ought to be more useful to ephemeropterists, particularly those who live outside North America. I hope to publish an annual bibliography on mayflies in each fall issue of the newsletter.

The following is a list of current publications dealing with Ephemeroptera that have been published since the 1991 (1992) NABS Bibliography or have not appeared in previous NABS Bibliographies. To facilitate locating abstracts and addresses of authors, the name of the index (abbreviated), volume, and abstract or item number follow each reference. Abbreviations are as follows: *Biological Abstracts* (BA); *Biological Abstracts/Reports, Reviews, and Meetings* (BA/RRM); *Current Contents - Agriculture, Biology, and Environmental Sciences* (CC); *Dissertation Abstracts International* (DAI); *Entomological Abstracts* (EA); *Masters Abstracts* (MA); and *Zoological Record - General Insects and Small Orders* (ZR). Citations for CC, DAI, and MA include the volume, issue number in parentheses (for CC), and page number on which the reference is found. References without an abstract number were obtained from the original reprint. I would appreciate receiving a reprint of any article that deals with mayflies, especially if it includes scientific names, so that it may be included in next year's bibliography. Also, I would like to be informed of any corrections or omissions in this or past bibliographies. Suggestions are always welcome. Please send all correspondence to Peter M. Grant, Department of Biological Sciences, Southwestern Oklahoma State University, Weatherford, Oklahoma 73096-3098 USA.

- Alba Tercedor, J.; Studemann, D. 1992. Upon the identity of *Drunella andaluciaca* Kazanci, 1990 (Ephemeroptera, Ephemerellidae). *Aquat. Insects* 14:47-48. BA 94:63249
- Anderson, N. H. 1992. Influence of disturbance on insect communities in Pacific northwest streams. *Hydrobiologia* 248:79-92. BA 95:95157
- Anderson, T. M.; Anderson, N. H. 1992. Insect composition of the aquatic habitats in the Bridge Creek drainage in central Oregon. *Northwest Environ. J.* 8:160-161. BA/RRM 44:56740
- Balasubramanian, C.; Venkataraman, K.; Sivaramakrishnan, K. G. 1991. Life stages of a South Indian burrowing mayfly, *Ephemerella (Aethephemerella) nadinae* McCafferty and Edmunds 1973. *Aquat. Insects* 13:223-228. BA 93:89257
- Balasubramanian, C.; Venkataraman, K.; Sivaramakrishnan, K. G. 1992. Bioecological studies on the burrowing mayfly *Ephemerella nadinae* McCafferty and Edmunds, 1973 (Ephemeroptera: Ephemeridae) in Kurangani Stream, Western Ghats. *J. Bombay Nat. Hist. Soc.* 89:72-77. BA 95:97938
- Bass, D.; Walker, V. 1992. A preliminary report of invertebrates from hyporheic sediments of the North Canadian River. *Proc. Okla. Acad. Sci.* 72:3-4. BA/RRM 44:68046
- Bauernfeind, E. 1991. *Rhithrogena zernyi* sp. n. - ein neuer Vertreter der *diaphana* - Gruppe aus Jugoslawien (Insecta: Ephemeroptera). *Ann. Naturhist. Mus. Wien Ser. B Bot. Zool.* 92:135-138. (In German; English summary.) ZR 128(13A):234
- Bauernfeind, E. 1992. *Rhithrogena taurisca* sp. n. - A new representative of the *Rh. semicolorata*-group from Austria (Insecta: Ephemeroptera). *Linzer Biol. Beitr.* 24(1):139-149.
- Bauernfeind, E.; Weichselbaumer, P. 1991. Eintagsfliegen-Nachweise aus Österreich (Insecta: Ephemeroptera). *Verh. Zool.-Bot. Ges. Oesterr.* 128:47-66. (In German; English summary.) ZR 128(13A):235
- Bazzanti, M. 1991 (1992). Sandy bottom macroinvertebrates in two moderately polluted stations of the River Treia, Central Italy. *Structural and functional organization. Ann. Limnol.* 27:287-298. BA 94:15082
- Bechara, J. A.; Moreau, G.; Planas, D. 1992. Top-down effects of brook trout *Salvelinus fontinalis* in a boreal forest stream. *Can. J. Fish. Aquat. Sci.* 49:2093-2103. BA 95:48447
- Belfiore C.; Picariello, O.; Scillitani, G.; Cretella, M. 1992. Genetic divergence between two insular species of the genus *Rhithrogena* (Ephemeroptera, Heptageniidae). *Fragm. Entomol., Roma* 23:235-242.
- Benke, A. C.; Hauer, F. R.; Stites, D. L.; Meyer, J. L.; Edwards, R. T. 1992. Growth of snag-dwelling mayflies in a blackwater river - the influence of temperature and food. *Arch. Hydrobiol.* 125:63-81. BA 94:106123
- Bij de Vaate, A.; Klink, A.; Oosterbroek, F. 1992. The mayfly *Ephoron virgo* Olivier back in the Dutch parts of the Rivers Rhine and Meuse. *Hydrobiol. Bull.* 25:237-240. BA 95:75098
- Bij de Vaate, A.; Oosterbroek, F. M. J. 1992. *Ephoron virgo* - new record recently recorded from the River Rhine (Ephemeroptera: Polymitarcyidae). *Entomol. Ber. (Amst.)* 52:8-11. (In Netherlandish) BA 93:100798
- Black, R. W.; Kershner, J. L.; Crowl, T. A. 1992. Macroinvertebrate drift densities and trout food selectivity across multiple inventory scales. *Bull. Ecol. Soc. Am.* 73 (2 suppl.):112-112 (abstract). BA/RRM 43:71178
- Blancher, P. J.; McNicol, D. K. 1991. Tree swallow diet in relation to wetland acidity. *Can. J. Zool.* 69:2629-2637. BA 93:132359
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- Boulton, A. J.; Peterson, C. G.; Grimm, N. B.; Fisher, S. G. 1992. Stability of an aquatic macroinvertebrate community in a multiyear hydrologic disturbance regime. *Ecology* 73:2192-2207. BA 95:60242
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- Byrne, P. J. 1992. On the biology of *Rhabdochona rotundicaudatum* and *Rhabdochona cascadiella* (Nematoda: Thelazioidea) in stream fishes from southern Ontario, Canada. *Can. J. Zool.* 70:485-493. BA 94:51873
- Camargo, J. A. 1992. Structural and trophic alterations in macrobenthic communities downstream from a fish farm outlet. *Hydrobiologia* 242:41-49. BA 95:14870
- Castella, E.; Richardot-Coulet, M.; Roux, C.; Richoux, P. 1991. Aquatic macroinvertebrate assemblages of two contrasting floodplains - the Rhone and Ain Rivers, France. *Regul. Rivers Res. Manage.* 6:289-300. BA 94:15102
- Christman, V. D.; Voshell, J. R., Jr. 1992. Life history, growth and production of Ephemeroptera in experimental ponds. *Ann. Entomol. Soc. Am.* 85:705-712. BA 95:40000
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- Corkum, L. D.; Hanes, E. C. 1992. Effects of temperature and photoperiod on larval size and survivorship of a burrowing mayfly (Ephemeroptera, Ephemeridae). Can. J. Zool. 70:256-263. BA 94:37663
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- Daniels, S. M.; Morse, J. C. 1992. Mayflies (Ephemeroptera), stoneflies (Plecoptera) and other interesting biota of Wildcat Creek, South Carolina, a biodiversity reference stream. Entomol. News 103:44-52. BA 94:18089
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- Flowers, R. W. 1992. Review of the genera of mayflies of Panama with a checklist of Panamanian and Costa Rican species (Ephemeroptera). Pages 37-51. In Quintero, D.; Aiello, A. (eds.). Insects of Panama and Mesoamerica: Selected studies. Oxford University Press, England. 692 pp.
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Toons by Tennesen



.....Happy Holidays!.....

Preliminary Announcement

Château d'Oex, Switzerland

14-20 August 1995

Two major events for aquatic entomologists and hydrobiologists!

VIIIth International Conference on Ephemeroptera

14-18 August 1995

and

XIIth International Symposium on Plecoptera

18-20 August 1995

Both congresses will be held in Switzerland at Château d'Oex, a village in the Swiss Alps, located between the Bernese Oberland and the Lake Geneva area, at an altitude of 1,000 m (3,300 ft.). Château d'Oex is situated in an alpine valley and is close to many streams providing collecting sites for both mayflies and stoneflies. It is also near some attractive places for tourists such as Gruyères, Montreux and Gstaad.

This event will be organized jointly by the Institute of Zoology of Fribourg University (Peter Landolt) and the Museum of Zoology (Michel Sartori).

The first announcement (including registration costs, program, social events and so on) will be sent to interested people at the beginning of 1994. Those who already receive either *Perla* or *The Mayfly Newsletter* will be contacted directly. Others are asked to make contact at the address below to receive further information.

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