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The Mayfly Newsletter

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THE MAYFLY NEWSLETTER

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IXth International Conference: Fantástico!

The IXth International Conference on Ephemeroptera was held 16-21 August 1998 in Tafí del Valle, a small town nestled at 2,000 m above sea level in the mountains of northwestern Argentina. Participants were treated to delicious regional food and the warm hospitality of the townspeople. More than 60 people from 25 countries were in attendance.

An informal evening reception was held on the 16th and the conference officially began on the 17th with a welcome address by Dr. Eduardo Domínguez, convenor of the conference, who also thanked the many contributors and sponsors of the conference (26 were listed in the program). He also reported that two travel scholarships were provided by the North American Benthological Society for Vanessa Maldonado (Venezuela) and Giovanna Rocabado (Bolivia). The Permanent Committee also provided travel scholarships for Milan Putz (Czech Republic), Tong Xiaoli (Hong Kong) and Dasa Zabrc (Slovenia).

participation of ephemeropterists, especially students.

John reminded the more experienced participants of their obligation to help younger members fit into our "mayfly family."

Eduardo presented John with a lapel pin displaying the emblem of the Universidad Nacional de Tucumán and thanked him and the Permanent Committee for their assistance in planning this conference.

Participants were introduced to delicious Argentine coffee and snacks during the breaks. These were anticipated throughout the conference.

Oral presentations then began on ecology, behavior, phylogeny, and taxonomy. Elda Gaino led a discussion on the structure and ultrastructure of Ephemeroptera eggs. She encouraged the use of illustrations to complement written descriptions of eggs. She further discussed fixation of eggs, chorionic decorations, and how to collect eggs. Elda will be writing a summary of her discussion for a future issue of *The Mayfly Newsletter*.

A poster paper session featuring papers on ecology followed.

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Next, Dr. Fernando Prado, Decano de la Facultad de Ciencias Naturales, Universidad Nacional de Tucumán, welcomed the participants.

John Flannagan represented the Permanent Committee and explained that the Committee's primary function is to assist with the selection of the site for the next conference. Typically, the mayfly conferences have been alternating between Europe and North America, with occasional meetings on other continents. The advantage of moving the conference sites around the globe, John indicated, is that it increases the

The eggs I like best are Easter eggs with a surprise inside!

Elda Gaino

Monday's session concluded with an invited lecture by Dr. Pablo Goloboff entitled, "Post-Hennigian Cladistics." Dr. Goloboff later demonstrated a program he has written for phylogenetic reconstruction. The program PIWE, "Parsimony with Implied Weights," is available at the Willi Hennig web site (www.zoo.toronto.edu/~mes/hennig/software.html).

The topics for the oral papers on Tuesday were systematics and biodiversity and the poster papers focused on morphology and taxonomy.

Bill Peters, on behalf of the Permanent Committee, presented a mayfly pin to Eduardo for his work in planning this conference. He also mentioned that two proposals have been submitted to host the next mayfly conference, and that copies

See Conference on p. 2



of these proposals were available for reading. Participants will vote for their preference at the business meeting.

That afternoon, the panel discussion, "What is the General Knowledge of Mayflies in the World: Past, Present and Future?" was held. This discussion was organized by Javier Alba Tercedor. Panelists and the geographic area they discussed were Ian Campbell and Kyla Finlay (Australia); Bill Peters (New Zealand, New Caledonia); Tomas Soldan (Indomalay region, East Palearctic); Jean-Marc Elouard, Mick Gillies and Jean-Luc Gattolliat (Africa, Madagascar); Michel Sartori (Europe); Pat McCafferty (North and Central America); and Michael Hubbard, Manny Pescador and Maria del Carmen Zuñiga (South America). Each group of panelists made a short presentation regarding the current knowledge of mayflies in the respective area. These presentations will be published in the proceedings of this conference.

Tuesday concluded with a demonstration of traditional Argentine music and dance.

Some people say the best

Baetis is a flat Baetis -

Platybaetis

Ian Campbell

Wednesday began with a trip to a local estancia, "Las Carreras." This estancia is known for the cheese it produces. Visitors toured the facility where the cheese was made and samples of cheeses were provided and consumed with great relish.

The local gauchos also showed off their skills. Unknown to most of the participants were the equestrian ephemeropterists who serve on the Permanent Committee, namely John Flannagan and Javier Alba Tercedor. Everyone commented on how both of these gentlemen looked exactly like John Wayne astride a great steed.

After lunch the oral papers dealt with ecology and morphology.

A business meeting was held later in the afternoon. The Permanent Committee will continue to use *The Mayfly Newsletter* as its official newsletter. It was also mentioned that copies of past proceedings are available. Profits, from the sale of some of these proceedings, will be used to supplement the travel scholarship fund.

Because of his work on *The Mayfly Newsletter*, a motion was made to elect Pete Grant to the Permanent Committee. The motion passed.

Two proposals have been received by the Permanent Committee to host the next mayfly conference. Elda Gaino has offered Perugia, Italy, as a meeting place and Pat McCafferty, West Lafayette, Indiana, USA. For the last several international conferences, ephemeropterists and plecopterists have held a joint meeting. Typically, though, the conference site was voted on by only the ephemeropterists. Discussions were held with some individuals involved with the planning of the stonefly conferences and it was decided

that, in the future, if a joint mayfly-stonefly meeting is planned, a vote to determine the next conference site would be held during a joint business meeting of both groups. For the next conference, though, only ephemeropterists would vote. The final vote would be announced later that evening during the dinner. (See related article on page 4.)

That evening the conference dinner was held at the Lunahuana Hotel. Bill Peters served as master of ceremonies. He began by congratulating the three recipients of the travel grants provided by the Permanent Committee and the two recipients of the North American Benthological Society travel grants.

Special medals (which looked suspiciously like those adorning the wine bottles) were presented to Javier Alba Tercedor for his expertise with fermented beverages, Michel Sartori for not getting an award as a convener of the last international conference, Pat McCafferty for submitting a proposal to host the next mayfly conference, and Pete Grant for being the newest member of the Permanent Committee.

On a more serious note, the members of the Organizing Committee were thanked. These included Dr. Eduardo Domínguez, convener, Dr. Hugo Fernández, Dr. María Gabriela Cuezco, Lic. Vivian de Fátima Romero, Lic. Carlos Molineri, and Mrs. Carolina Nieto. Many students also assisted with the organization. Eduardo was presented a plaque for his work as convener.

Bill announced that the votes were tallied and that the participants had voted for Perugia, Italy, as the next conference (2001) site. (Read Elda's proposal on page 4.)

The featured entertainment at the banquet was traditional tango dancing. Some non-Argentine participants also demonstrated their tango-dancing abilities. The dancing lasted until three in the morning (when the clerk turned off the music).

The joint symposium on mayflies and stoneflies began Thursday. Oral and poster papers reflected this theme.

Two computer demonstrations were presented. Jean-Marc Elouard discussed his program, "NOE: Nomenclature Oecologique et Environnementale." (See related article on page 3.)

The second program was presented by Riley Nelson, Robert Ourso and Michelle Trautwein, and was entitled, "Multime-

Has anyone seen my luggage?

Pete Grant

dia, Plecoptera, Ephemeroptera, and General Entomology: Use of CD ROM and WWW Technology for Teaching and Learning."

Thursday finished with the invited lecture by Dr. Jack Stanford, "To Burrow or Not to Burrow: The Ecology of Mayflies and Stoneflies at the Interface Between Surface and Ground Water."

Past conferences traditionally included a field trip for

See Conference on p. 3

Conference (cont. from p. 2)
 collecting and site seeing. This conference was no exception. The trip began Friday morning, the last day of the mayfly conference. The first stop was the Los Sosa River, ca. 1700 m above sea level, located in a transition zone between subtropical montane cloud and temperate forests. The weather was quite cool and foggy. The mate provided by the students warmed everyone nicely.

Next the buses traveled northwest crossing the mountains at 3,000 m above sea level to the Santa Maria Valley, stopping along the way at 2,800 m to collect in one more stream. During the trip it was possible to observe the altitudinal gradient from the cloud forest to the high mountain grasslands and down again to the dry semi-desert where the Quilmes archaeological ruins are located and where a traditional lunch was served.

Overall, a good time was had by all. Eduardo and his organizing committee are to be congratulated for this excellent conference. They did everything they could to make sure that all participants had an enjoyable, comfortable and productive conference.

The mayfly conference in Argentina was a complete success. Now, on to Italy!

Mayfly Music

For those of you who have the urge to not only study mayflies but to also listen to songs about them, here are two CDs for you.

My daughter's boyfriend, Jeff, introduced me to *If You're Feeling Sinister*, a CD by Belle and Sebastian (see the Matador Records web site at www.matador.recs.com). One of the songs on this CD is entitled, "Mayfly."

Another CD by the Glasnots is called *Mayfly Matinee* and features a song by the same name. Ordering information for this CD is available at www.aeons.com/hinely/mayfly.html or by writing The Kelsi Hinely Trust, 2109 Emerson, Denton, Texas 76201 USA, phone (817) 387-2846.

NOE: A Computer Database for Mayflies

At the mayfly conference, Jean-Marc Elouard discussed his computer program, "NOE: Nomenclature Oecologique et Environnementale." This program represents 10 years work of programming and managing a database on the mayflies and aquatic insects of sub-Saharan Africa and Madagascar. This database can be adapted to any systematic group, any ecological research and situations, and any geographical area, and also allows much flexibility for any operator.

The best points of this software are the interactive representation of the taxa distribution; the possibility to add, without any programming, thousands of parameters in any file; and to reconstitute all the data in any format.

This program, in PC or Macintosh format, is now available in French. The cost is approximately US\$300 and is available from Jean-Marc (LRSAE/ORSTOM, BP 434, 101 Antananarivo, MADAGASCAR, phone [261 20] 22 430 36, fax [261 20] 22 330 98, email elouard@lrsae.orstom.mg).

Mayfly Central

<http://www.entm.purdue.edu/entomology/mayfly/mayfly.html>

and take a look at the
 IXth conference
 photo at

Ephemeroptera Galactica
<http://www.famu.edu/mayfly/>

"Scopoli assures us that such swarms [of mayflies] are produced every season in the neighborhood of some particular spots in the Duchy of Carniola, that the countrymen think they obtain but a small portion, unless every farmer can carry off about twenty cartloads of them into his fields for the purpose of a manure." [Quotation by Shaw in Cowan, F. 1865. *Curious Facts in the History of Insects; Including Spiders and Scorpions*, p. 138. J. P. Lippincott and Co.]

Proposal of Prof. Elda Gaino to Organize the Joint Meeting in Perugia, Italy, in 2001

Xth International Conference on Ephemeroptera and XIVth International Symposium on Plecoptera

Prof. Elda Gaino, Istituto di Zoologia dell'Università di Perugia, Via Elce di Sotto, 06123 – Perugia, Italy, email Gaino@unipg.it

Location

Perugia is the main town of Umbria Region, located in Central Italy. Perugia is about 200 km northeast of Rome and 150 km south of Florence and stands on a "star-shaped" hill at about 500 m above sea level. Perugia retains many sights of its glorious and long history which has its roots in the Etruscan age. In any village tourists can find some memories of the past. In addition to its historical sites, Umbria shows beautiful landscapes with gentle hills, high mountains, rivers and lakes.

I am proposing to organize the conference at the University of Perugia. Perugia has good connections with the motorway and railway networks. People flying to the conference must use the airports in Rome and go on to Perugia by train or bus.

Schedule

The conference could be held during the last week of August or the first week of September. Usually, after the middle of August, finding accommodations is easier and, hopefully, cheaper.

Accommodations

Perugia is a tourist town and offers various kinds of accommodations. I will do my best to obtain reasonable prices. In addition, there are camping sites (10 km from Perugia), youth hostels and a lodge reserved for university researchers (only a few rooms available).

Registration fee

To make the fee affordable I am planning to apply for funds from several different sources.

Approximately, the fee could be \$200 (at this time, 1\$ = 1800 lire). The registration fee will include: a) cost for the conference rooms, b) coffee breaks, c) field trip (one-day excursion), d) conference dinner, e) program, abstract book, copy of the proceedings, and f) souvenirs. The proceedings will be published in a special number of the *Rivista di Idrobiologia*, University of Perugia.

Field trip

The field trip will be organized to allow people to collect specimens along one of the many streams of the region.

Accompanying persons

Perugia offers many opportunities: museums, palaces, churches, medieval and archeological sites, etc. Guided tours will be arranged.

Post conference travel

A form will be sent to the participants with some proposals to visit the main Italian towns (e.g. Rome, Florence, Venice).

Mayfly and Stonefly Committees Meet

The Standing Committee for the International Symposium on Plecoptera and the Permanent Committee of the International Conferences on Ephemeroptera held a joint meeting after the excursion to the archaeological ruins on Friday during the conference in Argentina.

The ephemeropterists had earlier voted to hold the next conference (2001) in Perugia, Italy. Elda Gaino extended the same invitation to also host the stonefly conference. Since most of the plecopterists were not present at the mayfly business meeting, during which the Perugia location was chosen, they decided to vote for the site of their 2001 conference at the stonefly business meeting.

Several recommendations were made regarding our joint meetings:

- If a convenor chooses to host both conferences, he or she should submit a proposal to both committees for consideration.
- Since plecopterists and ephemeropterists will both be voting on future conference venues, it would be more practical to hold a joint business meeting to consider the next site.
- Costs for future joint meetings could be reduced by holding joint business meetings, dinners, field trips, sharing guest speakers, etc.

[Editor's note: According to the *Rolling Stonefly Newsletter* (Volume 10, September 1998), the plecopterists voted to hold a joint meeting with the ephemeropterists in Perugia in 2001.]

Publications on Mayflies

Fauna Helvetica 2. Atlas de Distribution des Ephemeres de Suisse (Insecta: Ephemeroptera)

[From the publication flyer:] This book, by Michel Sartori and Peter Landolt, presents the distribution and general ecology of all mayfly species recorded in Switzerland. It thus completes the key to mayflies published in 1992 by Studemann et al. in the series *Insecta Helvetica*.

The first chapters (in French and German) summarize certain aspects of the biology of mayflies and describe the influence of hydrologic and biogeographic elements on the fauna of the different regions of Switzerland.

The main part of the book presents the autecology and distribution of the 85 species known today in Switzerland.

The last part synthesizes the results and briefly discusses the status of each species.

220 pages, 13 figures, 11 charts, 85 distribution maps. Price appr. CHF 35. Send your order to CSCF, Terreaux 14, CH-2000 Neuchâtel, Switzerland.

Organizing Scientific Meetings

Future conference convenors might be interested in this book by August Epple. It is available in hardback (ISBN 0 521 56351 8, US\$49.95) and paperback (ISBN 0 521 58919 3, US\$15.95) from Cambridge University Press, 40 West 20th Street, New York, New York 10114-0495 USA, phone (800) 872-7423 (US and Canada) or (914) 937-9600, fax (914) 937-4712, web site www.cup.org.

Diversity and Distribution of the Mayflies (Ephemeroptera) of Illinois, Indiana, Kentucky, Michigan, Ohio, and Wisconsin

This publication is available for US\$25 from the Ohio Biological Survey, 1315 Kinnear Road, Columbus, Ohio 43212-1192 USA, phone (614) 292-9654, fax (614) 688-4322.

Shipping costs are as follows: Western Hemisphere, add 10%; Europe, add 15%; Africa, Asia and the South Pacific, add 16%.

Visa and Mastercard are accepted.

Ephemeroptera & Plecoptera: Biology – Ecology – Systematics

Copies of the Proceedings of the VIIIth International Conference on Ephemeroptera are still available. Books can be ordered for the price of US\$50 (shipping included) accompanied by a bank or postal check.

POST CHECK CCP: 17-8359-8 Congrès 95 or SBS, 1002 Lausanne: G0-544'829'0 Congrès 95 or BANK CHECK/ BANKSCHECK/ CHEQUE BANCAIRE

Mail your request to the following address: Dr. Peter Landolt, University of Fribourg, Institute of Zoology, Pérolles, CH-1700 Fribourg, SWITZERLAND, phone ++41 26 300 88 72, fax: ++41 26 300 97 41, or email him at Peter.Landolt@unifr.ch.

Mayfly Slides for Sale by NABS

The North American Benthological Society (NABS) has established a freshwater macroinvertebrate slide library. A complete list of slides was published in the Fall 1998 issue of the *NABS Bulletin*. Among these slides are 10 of Ephemeroptera:

10. Bactidae, *Callibaetis ferrugineus*, nymph
11. Baetiscidae, *Baetisca* sp., nymph
12. Ephemeridae, subimago
13. Ephemerellidae, nymph
14. Heptageniidae, *Epeorus* sp., nymph (ventral view showing gills)
15. Heptageniidae, nymph
16. Oligoneuriidae, *Isonychia* sp., nymph
17. Ephemeroptera, adult
110. Ephemerellidae, *Drunella* sp., nymph
111. Potamanthidae, *Anthopotamus* sp., nymph

Prices are US\$1.50/slide for NABS members, US\$2.00/slide for nonmembers and institutions.

To order slides, identify the number of the slide (given above) to be purchased and send payment by check or money order (no credit cards, pre-payment required) to

Leonard Smock (lsmock@saturn.vcu.edu), Department of Biology, Virginia Commonwealth University, Richmond, Virginia 23284-2012 USA. Make checks payable to Virginia Commonwealth University.

NABS would like to increase the size of its slide library. If you have any slides to donate, contact Len Smock at the above address.

The Mayfly Newsletter is the official newsletter of the International Conferences on Ephemeroptera and is published twice a year to facilitate communication among ephemeropterists. Subscriptions to the *Newsletter* are free. To place your name on the mailing list or to contribute information for the next issue, contact Peter M. Grant, editor, *The Mayfly Newsletter*, Department of Biological Sciences, Southwestern Oklahoma State University, Weatherford, Oklahoma 73096-3098 USA, phone (580) 774-3294, fax (580) 774-3795, email grantp@swosu.edu. This publication was authorized by the Dean of Arts and Sciences and was printed at a cost of \$250.00 for 500 copies.

1997 Mayfly Bibliography

[Editor's note: This bibliography was published as the Ephemeroptera portion of the 1997(1998) North American Benthological Society's (NABS) *Current and Selected Bibliographies on Benthic Biology*.]

The following is a list of current publications dealing with Ephemeroptera that have been published up to and during 1997 and 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 International* (MAI); and *Zoological Record - General Insects and Small Orders* (ZR). Citations for CC, DAI, and MAI include the volume, issue number in parentheses, 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 contains 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, phone (580) 774-3294, fax (580) 774-3795, email grantp@swosu.edu.

If you would like an electronic copy of this year's mayfly bibliography, simply send me a request via email. I will send this file to you as an attachment.

- Aagaard, K.; Solem, J. O.; Nost, T.; Hanssen, O. 1997. The macrobenthos of the pristine stream, Skiftesaa, Hoylandet, Norway. *Hydrobiologia* 348(0): 81-94. [BA 104:125337]
- Adamek, Z.; Sukop, I. 1996. The impact of trout farm discharges on benthic community structure in a small karstic stream. *Acta Univ. Carolinae Biol.* 40(1-2): 3-16. [BA 103:12432]
- Bae, Y. J. 1997. A historical review of Ephemeroptera systematics in Northeast Asia. pp. 405-417. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics.* Mauron + Tinguely & Lachat SA, Fribourg, 569 pp.
- Barber James, H. M.; McCafferty, W. P. 1997. Review and a new species of the African genus *Acanthiops* (Ephemeroptera: Baetidae). *Ann. Limnol.* 33(2): 85-92. [BA 104:53878]
- Bargar, T. A.; Fisher, S. W. 1997. Molluscicide acute and sub-chronic toxicity to the three non-target organisms *Hexagenia limbata*, *Ceriodaphnia dubia*, and *Pimephales promelas*, and neutralization of that toxicity by bentonite clay. *Bull. Environ. Contam. Toxicol.* 58(2):275-282. [BA103:75368]
- Barton, D. R.; Farmer, M. E. D. 1997. The effects of conservation tillage practices on benthic invertebrate communities in headwater streams in southwestern Ontario, Canada. *Environ. Pollut.* 96(2): 207-215 [BA 104:96218]
- Basset, A. 1997. Mechanisms relating biomass concentration in individuals to interspecific resource competition. *Oikos* 78(1): 31-36. [BA103:108451]
- Bauernfeind, E. 1997. Discriminating characters in Central European species of *Ecdyonurus* Eaton. pp. 418-426. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics.* Mauron + Tinguely & Lachat SA, Fribourg, 569 pp.
- Baumgardner, D. E.; Kennedy, J. H.; Henry, B. C., Jr. 1997. New and additional records of Texas mayflies (Insecta: Ephemeroptera). *Trans. Am. Entomol. Soc.* 123(1-2): 55-69. [BA 104:68142]
- Bechara, J. A. 1996. The relative importance of water quality, sediment composition and floating vegetation in explaining the macrobenthic community structure of floodplain lakes (Parana River, Argentina). *Hydrobiologia* 333(2):95-109. [BA 103:18958]
- Belfiore, C. 1997. Taxonomic characters and discrimination of species in the genus *Electrogena* Zurwerra & Tomka, 1985 (Ephemeroptera, Heptageniidae). pp. 427-433. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics.* Mauron + Tinguely & Lachat SA, Fribourg, 569 pp.
- Belfiore, C.; Di Girolamo, I.; Mancini, L. 1995(1996). Ephemeroptera, Caenidae. *Brachycercus harrisella* Curtis, 1934. *Bol. Assoc. Romana Entomol.* 50(1-4): 83. (In Italian) [BA 103:143281]
- Belfiore, C.; Scillitani, G.; Picariello, O.; Cataudo, A. 1997. Morphological and electrophoretic evidence for a new species of *Electrogena* from Central Italy: description of *E. lunaris* sp. n. (Ephemeroptera: Heptageniidae). *Aquat. Insects* 19(3): 129-140. [BA 104:129426]
- Blanke, D. 1994. Contribution concerning the occurrence of mayflies, stoneflies and caddisflies (Insecta: Ephemeroptera, Plecoptera, Trichoptera) along the southern Lower Saxonian Bremke brook (Norten-Hardenberg, Northeim district). *Ber. Naturhist. Gesell. Hannover* 136: 197-205. (In German, English summary) [ZR 133:1585]
- Bodaly, R. A.; St. Louis, V. L.; Paterson, M. J.; Fudge, R. J. P.; Hall, B. D.; Rosenberg, D. M.; Rudd, J. W. M. 1997. Bioaccumulation of mercury in the aquatic food chain in newly flooded areas. pp. 259-287. *IN: Sigel, A.; Sigel, H. (eds.). Metal ions in biological systems, vol. 34.* Marcel Dekker, New York. [CC 28(14)]
- Bogatov, V. V. 1989. Some notes about dynamics of benthos in the time of rain spring floods. pp. 112-119. *IN: Levanidova, I. M.; Makarchenko, E. A. (eds.). Systematics and ecology of river organisms: collections of scientific articles.* Akademiya Nauk SSSR, Vladivostok. 164 pp. (In Russian) [ZR 133:1792]
- Boudou, A.; Ribeyre, F. 1997. Mercury in the food web: accumulation and transfer mechanisms. pp. 289-319. *IN: Sigel, A.; Sigel, H. (eds.). Metal ions in biological systems, vol. 34.* Marcel Dekker, New York. [CC 28(14)]

- Boumaiza, M.; Thomas, A. 1995. Distribution and ecological limits of Baetidae vs the other mayfly families in Tunisia: A first evaluation (Insecta, Ephemeroptera). *Bull. Soc. Hist. Natur. Toulouse* 131(0): 27-33. [BA 103:79453]
- Bowen, K. L. 1996. Macroinvertebrate communities and biofilms in submerged woody debris in two oligotrophic lakes. Thesis, University of Guelph. [MAI 35(3):756]
- Braaten, P. J.; Guy, C. S. 1997. Stranding of *Pentagenia vittigera* following flow reductions in the lower Missouri River. *J. Freshwater Ecol.* 12(3): 493-494. [BA 104:110601]
- Brettfeld, R. 1996. Additional records of the mayfly *Ecdyonurus aurantiacus* (Burmeister, 1839) in Saxony (Ephemeroptera). *Entomol. Nachr. Ber.* 40(2): 128-129. (In German) [ZR 133:1926]
- Brettfeld, R.; Wolf, J. 1996. Rediscovery of the mayfly *Ecdyonurus aurantiacus* (Burmeister 1839) in Saxony (Ephemeroptera). *Entomol. Nachr. Ber.* 40(2): 128-129. (In German) [BA 103:39556]
- Brown, A. V.; Aguila, Y.; Brown, K. B.; Fowler, W. P. 1997. Response of benthic macroinvertebrates in small intermittent streams to silvicultural practices. *Hydrobiologia* 347(0): 119-125. [BA 104:125240]
- Bryan, K. L.; Gutowski, M. J.; Slusark, J. P.; Stauffer, J. R., Jr. 1996. The diet of *Percina caprodes* (Rafinesque) (Pisces: Percidae) in small stream in Pennsylvania. *J. Penn. Acad. Sci.* 70(2):75-79. [BA 103:79543]
- Buffagni, A. 1997. Mayfly community composition and the biological quality of streams. pp. 235-246. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics. Mauron + Tinguely & Lachat SA, Fribourg.* 569 pp.
- Buffagni, A. 1997. Taxonomic and faunistic notes on the *Caenis pseudorivulorum*-group (Ephemeroptera, Caenidae). pp. 434-438. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics. Mauron + Tinguely & Lachat SA, Fribourg.* 569 pp.
- Burian, S. K. 1997. An analysis of the distribution and diversity of the Ephemeroptera of Maine, U.S.A. pp. 127-138. *IN: Landolt, P.; Sartori, M. (eds.) Ephemeroptera & Plecoptera. Biology, ecology, systematics. Mauron + Tinguely & Lachat SA, Fribourg.* 569 pp.
- Burian, S. K. 1997. First record of *Anthopotamus verticis* and new records of *A. distinctus* (Ephemeroptera: Potamanthidae) in New England. *Entomol. News* 108(2): 155-158. [BA 104:7722]
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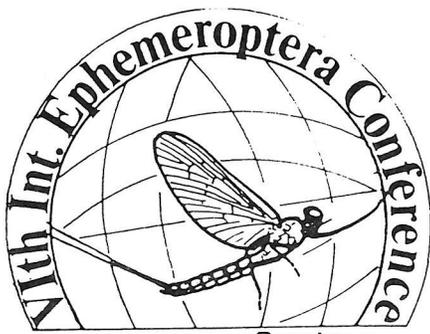
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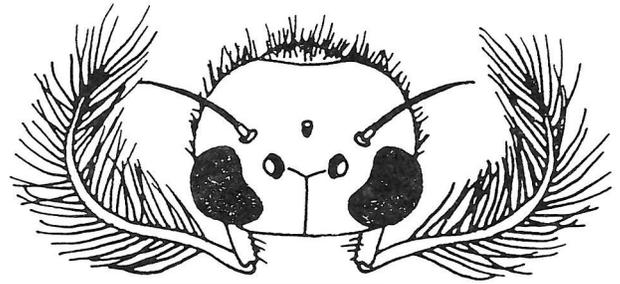
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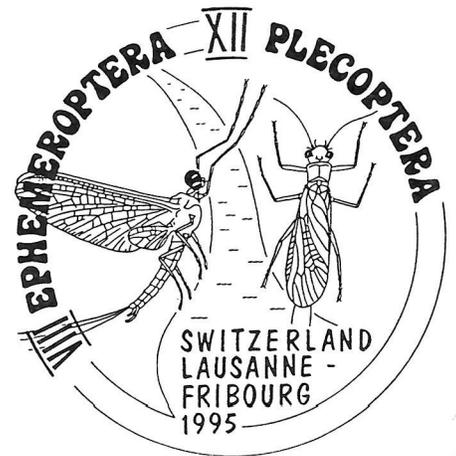


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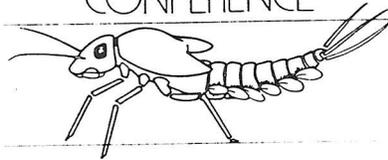


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