
1-1-2011

The Mayfly Newsletter

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Recommended Citation

Grant, Peter M. (2011) "The Mayfly Newsletter," *The Mayfly Newsletter*. Vol. 16: Iss. 2, Article 1.
Available at: <https://dc.swosu.edu/mayfly/vol16/iss2/1>

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THE MAYFLY NEWSLETTER

Vol. 16 No. 2

Southwestern Oklahoma State University, Weatherford, Oklahoma 73096-3098 USA

January 2011

XIIIth International Conference on Ephemeroptera XVIIth International Symposium on Plecoptera 5-11 June 2011, Japan

The next Joint International Conference will be held in Kiyosato, Japan, 5-11 June 2011. Kiyosato is a highland town at the foot of Mt. Yatsugatake.

The preliminary program includes welcome and farewell parties, a mid-conference barbeque party and trip to the upper streams of the Chikuma River for collecting, and a post-conference trip to Narai-Jyuku. The First Symposium of the Benthological Society of Asia (5th Symposium of the Aquatic Entomological Societies of East Asia) is scheduled to begin in Matsumoto immediately after this conference. Activities are being planned for those who accompany conference participants, too.

Registration is now open for the conference. Regular registration and abstract submission close on 28 February. Additional information is available at the conference web site: <http://cse.ffpri.affrc.go.jp/yoshi887/jointconference2011.html>.

How to Submit a Proposal to Host the Next International Conference

During the international joint conference in Japan, the mayfly and stonefly organizing committees will consider proposals to host the next conference, ca. 2014. If you are considering the possibility of hosting the conference after Japan, please note the following.

Representatives from the International Conferences on Ephemeroptera and the International Society of Plecopterologists established a set of guidelines for submitting proposals to host the joint conferences. These guidelines are:

Preliminary Proposals

Preliminary proposals to host a conference may be submitted six years prior to the year of the proposed conference, but a final vote on the conference site will not be made until three years prior to the actual conference date.

Final Proposals

1. Proposals should be submitted at least one month prior to the conference during which the proposal will be officially presented.
2. A copy of this proposal should be sent to the chair of each committee - International Conferences on Ephemeroptera (Michel Sartori, michel.sartori@vd.ch) and the International Society of Plecopterologists (John Brittain, j.e.brittain@nhm.uio.no).
3. Proposals should be submitted by email. This facilitates distribution of the proposal to the members of the two committees.
4. Proposals should contain detailed information regarding plans to host the conference.

So, if you would like to host the conference after Japan, or if you have questions about hosting a conference or submitting a proposal, please contact either Michel or John. Either individual can answer your questions.

Auction to Raise Funds for Travel Scholarships

An auction will be held at the International Conference in Japan to benefit the William L. Peters Travel Scholarship Fund. This fund provides financial support to help students, who are studying mayflies, to attend the international conference. During the Stuttgart conference, four students were awarded travel scholarships totaling €2644, €1500 of which were supplied by the scholarship fund.

This will be a silent auction, where all items to be auctioned will be displayed for several days during the meeting. A sheet of paper will be placed next to each item so that individuals may write down the amount they wish to bid for the item. At the end of the auction, the person who submitted the highest bid wins that item.

For now we are asking you to think about what you might like to donate to this auction. Certainly anything with a mayfly theme would be appropriate, such as books or other publications, photographs, artwork or jewelry. Collecting equipment, rare or unusual mayfly specimens, and tied flies for fly-fishing would be good options, too.

Donated items do not have to deal with mayflies, though. For example, consider donating interesting art or craftwork from your country or possibly souvenirs of Japan. (Continued on p. 16)

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The Mayfly Newsletter is printed on recycled paper with vegetable-based ink.

Mayfly Larvae (Ephemeroptera) of Britain and Ireland: Keys and a Review of Their Ecology.

Elliott, J. M. and U. H. Humpesch. 2010.
Freshwater Biological Association Scientific
Publication No. 66.
ISBN 978-0-900386-78-7.

From the FBA website:

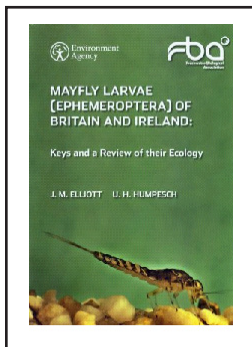
“Even for those who are already familiar with mayfly larvae, this latest edition is an essential requirement for accurate and up-to-date identification, including the latest nomenclature for this important and popular group of freshwater insects.

“Replacing an earlier key by the same authors (published by the FBA in 1988, Sci. Publication 49), this new edition incorporates three additional species recorded in Britain since 1988 (*Electrogena affinis*, *Caenis pseudo* and *C. beskidensis*) as well as changes to familiar names and other recent advances in classification and taxonomy. A key to

families is followed by a series of keys to identify species, illustrated by numerous line drawings that show the important key characters used for identification. These are supplemented (as in the 1988 edition) by sketches of common mayfly larvae drawn by Professor Mizzaro Wimmer and some new colour photographs of live larvae. These greatly enhance the text and will help beginners and others to familiarise themselves with the general appearance and diversity of mayflies.

“Apart from the keys for identification, a wealth of basic information on the ecology of mayflies is summarised in 40 pages of tables and text, plus text figures showing the life histories of most species. A final section of text covers the importance and use of mayflies for applied purposes, especially in relation to pollution and ecological assessment of aquatic environments. The two authors, Professor Malcolm Elliott (Freshwater Biological Association) and Professor Uwe Humpesch (University of Vienna), have an unrivalled practical knowledge of the mayfly fauna of northwestern Europe, gained from many years of study, and the results of their own studies are incorporated into the text. Both are fully acquainted with the extensive scientific literature, published in several languages, and this is distilled into a readable form, citing more than 500 references.”

Visit the FBA website (<http://www.fba.org.uk/sp66>) for more information or to order a copy.



Nominations for Lifetime Achievement Award Requested

At the 2008 International Conference on Ephemeroptera in Stuttgart, the Permanent Committee awarded the first Lifetime Achievement Awards to Ingrid Müller-Liebenau, John Flannagan and Janice Peters. The Committee would like to establish this as a tradition at future conferences.

The Committee is soliciting nominations for the next award. If you would like to nominate a colleague, please send your nomination, along with an explanation of why he or she deserves the award, to Michel Sartori, Musée cantonal de zoologie, Place de la Riponne 6 CP, CH-1014 Lausanne, Switzerland, michel.sartori@vd.ch. The deadline for receiving nominations is 15 March 2011.

Distribution and Ecological Preferences of European Freshwater Organisms. Volume 3. Ephemeroptera.

Buffagni, A., M. Cazzola, M. J. López-Rodríguez, J. Alba-Tercedor and D. G. Armanini. 2009. Pensoft Publishers, Sofia, Bulgaria. ISBN 978-954-642-508-9 (paperback), 978-954-642-509-6 (e-book).

From the book jacket:

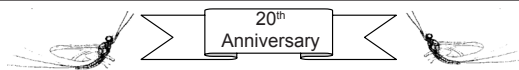
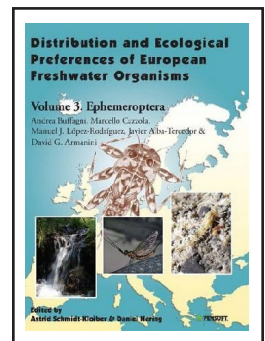
“This book series provides comprehensive information on the distribution and ecological preferences of European freshwater organisms. The third volume summarizes current knowledge on European mayflies (Ephemeroptera), based on the evaluation of over 1,400 literature references.

“The distribution within the European ecoregions is given for 344 European Ephemeroptera species and subspecies, categorized into 50 genera and 18 families.

“A wide variety of ecological preferences is presented as numerical codes, including feeding types, habitat and current preferences, temperature and altitude preferences, life span, flight periods, and overall species rarity.

“This compilation provides a unique tool for the analysis of freshwater biota, both for basic and applied purposes such as ecosystem monitoring and the implementation of European directives in the field of environmental protection.”

The web site of the publisher indicates that there will be five volumes in this series Trichoptera, Ephemeroptera, Plecoptera, Diatomea and Pisces. For more information or to order a copy, visit the publisher’s website at <http://www.pensoft.net/>.



The Mayfly Newsletter is Now Online!

Southwestern Oklahoma State University (SWOSU) has established the SWOSU Digital Repository which contains many of the institution's publications along with a number of historical documents. I am pleased to announce that *The Mayfly Newsletter* has been added to that repository and it is now available online! This is the result of the efforts of one of our librarians, Mr. Phillip Fitzsimmons, and his assistant, Mr. Jason Henderson.

To find the newsletter, simply go to <http://site.ebrary.com/lib/swosudr>. Directions for using this database are on the left under "Getting Started."

For a quick start, simply type "mayfly" in the "Simple Search" box at the top of the page and click "Return." The newsletter will appear in a list. Click on the name of the newsletter and a page that appears blank will appear (scroll down to see an image). Use the right arrow (next page command) to advance four pages. This will place you on page one of the first issue of the newsletter. All pages of all issues follow consecutively.

For more of a PDF view, click the "ebrary Reader" button at the top of the page. This database also allows searches.

If you have questions about using this database, please contact Mr. Phillip Fitzsimmons at phillip.fitzsimmons@swosu.edu.

Updated Addresses Needed

I need updated mailing addresses for

International

J. M. Elouard, Montpellier, France
C. E. Fernandez, Cali, Colombia
S. I. Ishiwata, Hiratsuka, Japan
Y. Isobe, Nara, Japan
N. Kazanci, Ankara, Turkey
M. Klonowska-Olejnik, Krakow, Poland
E. Latorre Macarron, Soria, Spain
M. T. Monaghan, London, England
D. Zabrcic, Ljubljana, Slovenia

United States

R. Durfee, Hamilton, MT
J. Gibson, Chadron, NE
J. Glass, Waco, TX
S. Long, Colorado Springs, CO
J. Richardson, Salt Lake City, UT
B. Sames, San Antonio, TX
E. Smith, San Francisco, CA
K. Stroom, Duluth, MN

A 25th-year Anniversary Issue: The Role of *J-NABS* in Freshwater Benthic Science

From the NABS website:

"[The *Journal of the North American Benthological Society*] is celebrating its 25th anniversary by publishing a special issue of the Journal [Vol. 29, Issue 1, March 2010]. The issue is titled "A 25th-year Anniversary Issue: The Role of *J-NABS* in Freshwater Benthic Science" (Pamela Silver and Alan D. Steinman [editors]). It consists of 18 review papers that address the progress of 18 subdisciplines within benthology and the role of the Journal in the development of each subdiscipline.

"Authors provide a broad review of the literature, place the papers published in *J-NABS* within an historical context (each author includes a timeline of key papers in their field), and analyze the contribution of papers published in *J-NABS* to the subdiscipline. They also describe challenges and opportunities for future development of the field."

To obtain articles, go to BioOne (<http://www.bioone.org/toc/jnbs/29/1>). All articles in this special issue have open access anyone can download articles.

Entomological Society of America's International Entomology Network

The Entomological Society of America's (ESA) International Entomology Network wants to create a "United Nations" of Entomology." Anyone in an entomological discipline, including non-ESA members, is welcome to join. The goal is to attract members from around the world to represent all possible aspects of entomology.

To sign in and join this network, go to <http://esanetworks.org/groups>. Click on "Click here to join" in the upper right corner. After providing some demographic information, you can choose from among 36 networks, including International Entomology and Aquatic Entomology. There is no cost to join



It almost slipped past me in 2010 this newsletter celebrated its 20th year of publication! Many thanks to all of you for your support, encouragement and contributions. Very special thanks also to the Southwestern Oklahoma State University administration for continuing its financial support of the *Newsletter*.

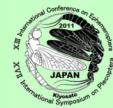
As we head into the third decade of publication, please remember that the purpose of this newsletter is "to facilitate communication among ephemeropterists." I would like to include articles about your research, graduate student proposals, commentaries, book reviews, historical aspects of mayfly research, etc. Simply send your contribution to me via email (peter.grant@swosu.edu).



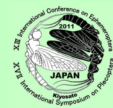
The University of Vienna offered an advanced student course on the “Identification of Mayfly Larvae and Their Ecology” based on Bauernfeind and Humpesch (2001). This course included an excursion to familiarize the students with live larvae. (Photo and information provided by Uwe Humpesch)

Mayflies Make *Time's* Top 10 List: Weird Insect Mating Rituals

Time magazine listed mayflies among the “Top 10 Weird Insect Mating Rituals” in its 16 August 2010 issue. Here is the URL for the article: http://www.time.com/time/specials/packages/article/0,28804,2010939_2010938_2010936,00.html. It is probably just easier to go www.time.com and type in “mayflies” as the search term.



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C1A 4P3, giberson@upeu.ca

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Tomáš Soldán, Institute of Entomology, Academy of Sciences of the Czech Republic, University of South Bohemia, Branišovská 31, 37005 České Budjovice, Czech Republic, soldan@entu.cas.cz

Arnold Staniczek, Staatliches Museum für Naturkunde, Abt. Entomologie, Rosenstein 1, D-70191 Stuttgart, Germany, arnold.staniczek@smns-bw.de

2008 Mayfly Bibliography

The following is a list of current publications on Ephemeroptera that have been published up to and during 2008 and have not appeared in previous NABS Bibliographies.

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

- Abilio, F. J. P.; de Melo Ruffo, T. L.; de Souza, A. H. F. F.; Florentino, H. D.; Targino de Oliveira, E. J.; Meireless, B. N.; Santana, A. C. D. 2007. Benthonic macroinvertebrates as bioindicators of environmental quality from water bodies of Caatinga. *Oecologia Brasiliensis* 11(3): 397-409. [In Portuguese]
- Afanasyev, S. A.; Lyashenko, A. V.; Zorina-Sakharova, Manage. 4(2): 263-264.
- Alexander, A. C.; Heard, K. S.; Culp, J. M. 2008. Emergent body size of mayfly survivors. *Freshwater Biol* 53(1): 171-180.
- Alibozek, J.; Ganger, M. 2008. Temporal changes in stream abundance in northwestern Massachusetts. *J. Freshwater Ecol.* 23(4): 673-676.
- Angelibert, S.; Indermuehle, N.; Luchier, D.; Oertli,

Is This Bibliography Useful to You?

The Literature Review Committee of the North American Benthological Society (NABS) has published *Current and Selected Bibliographies on Benthic Biology* since 1965. Each issue contains recent publications for the different groups of aquatic invertebrates along with other areas of aquatic biology such as periphyton, toxicology, methods, and conservation biology. I have served on the Literature Review Committee for 25 years, contributing the Ephemeroptera portion. The editor and chair of the committee during that time, Don Webb, graciously allowed me to publish the mayfly portion of that bibliography in *The Mayfly Newsletter*.

I recently resigned from the Literature Review Committee. The bibliography in this issue of the *Newsletter* is the last one that I contributed. Unfortunately, the new Committee Chair, Mark Wetzel, has not been successful at finding my replacement. This means that there was no mayfly bibliography for the 2010 publication of the *NABS Bibliography* nor will there be one published in the next newsletter.

When this bibliography first appeared in the *Newsletter*, I received many favorable comments about how useful it was. Twenty years ago, we did not have the databases and technology that we have today. At that time, conducting a literature search meant spending much time paging through journals and indexes such as *Biological Abstracts*. These indexes were very expensive and colleagues at small institutions simply did not have access to them. This annual bibliography helped to solve that problem.

However, given the development of the internet and online databases, it may no longer be practical to continue to publish an annual bibliography on mayflies. It takes a significant amount of time to compile the bibliography and then format it for the *Newsletter*. The bibliography also takes up the largest portion of the *Newsletter*, and thus adds considerably to the publication and mailing costs.

I would like to know if you find this mayfly bibliography useful. Please send an email (peter.grant@swosu.edu) to me commenting on how useful it has been to you and if you think it should continue to be included in the *Newsletter*. If it is still useful to many people, I will continue to include it in the *Newsletter*. However, the problem still remains that someone needs to compile this bibliography for NABS and for this *Newsletter*.

If you would like to assist with this bibliography, please contact the current chair of the NABS Literature Review Committee, Dr. Mark Wetzel, at mjwetzel@illinois.edu, phone (217) 244-2108. He can provide more information about the responsibilities.

- Ye, Ye.; Romanenko, Ye. A. 2008. Phytophilous macrofauna as the index of the ecological state of water bodies of the Kiliya Delta of the Danube River. *Hydrobiol. J.* 44(4): 3-13.
- Alexander, A. C.; Culp, J. M. 2008. Insulate or exacerbate? Exploring nutrient masking of contaminant effects. *Integrated Environ. Assessment*
- B.; Perfetta, J. 2006. Where hides the aquatic biodiversity of macroinvertebrates in the Canton of Geneva (Switzerland)? *Arch. Sci.* 59(2-3): 225-234.
- Aroca, A.; Raposo, R.; Lunello, P. 2008. A biomarker for the identification of four *Phaeoacremonium* species using the beta-tubulin gene as the target sequence. *Appl. Microbiol. Biotechnol.* 80(6): 1131-

- 1140.
- Aroviita, J.; Hamalainen, H. 2008. The impact of water-level regulation on littoral macroinvertebrate assemblages in boreal lakes. *Hydrobiologia* 613: 45-56.
- Back, J. A.; Taylor, J. M.; King, R. S.; Fallert, K. L.; Hintzen, E. H. 2008. Ontogenic differences in mayfly stoichiometry influence growth rates in response to phosphorus enrichment. *Fundamental Appl. Limnol.* 171(3): 233-240.
- Baecker, H.; Fanenbruck, M.; Waegeler, J. W. 2008. A forgotten homology supporting the monophyly of Tracheata: the subcoxa of insects and myriapods revisited. *Zool. Anz.* 247(3): 185-207.
- Barber-James, H. M.; Gattolliat, J.-L.; Sartori, M.; Hubbard, M. D. 2008. Global diversity of mayflies (Ephemeroptera, Insecta) in freshwater. *Hydrobiologia* 595: 339-350.
- Baryshev, I. A. 2008. The distribution of zoobenthic organisms as the water level decreases in a small river. *Inland Water Biol.* 1(4): 388-392.
- Baumgaertner, D.; Moertl, M.; Rothhaupt, K.-O. Effects of water-depth and water-level fluctuations on the macroinvertebrate community structure in the littoral zone of Lake Constance. *Hydrobiologia* 613: 97-107.
- Beketov, M. A. 2007. New records of mayflies and stoneflies (Ephemeroptera, Plecoptera) in south-west Siberia. *Evraziatskii Entomol. Zh.* 6(4): 387-388.
- Beketov, M. A. 2008. Community structure of Ephemeroptera in Siberian streams. *Entomol. Sci.* 11(3): 289-299.
- Bennett, M. G.; Kuhajda, B. R. 2008. Life history aspects of the black madtom, *Noturus funebris* (Siluriformes: Ictaluridae), in the Cahaba River drainage, central Alabama, USA. *J. Freshwater Ecol.* 23(3): 365-372.
- Bona, F.; Falasco, E.; Fenoglio, S.; Iorio, L.; Bandino, G. 2008. Response of macroinvertebrate and diatom communities to human-induced physical alteration in mountain streams. *River Res. Appl.* 24(8): 1068-1081.
- Boyero, L.; Rincon, P. A.; Pearson, R. G. 2008. Effects of a predatory fish on a tropical detritus-based food web. *Ecol. Res.* 23(4): 649-655.
- Braasch, D. 2006. Critical annotations on the taxonomy of several Heptageniidae (Ephemeroptera) from Middle Asia and Far East. *Entomol. Nachr. Ber.* 50(4): 197-204. [In German; English summary]
- Braasch, D.; Freitag, H. 2008. *Palawaneuria*, a new subgenus of *Compsoeuryia* and new species of *Compsoeuryia* and *Afronurus* (Ephemeroptera, Heptageniidae) from Palawan, Philippines. *Deutsche Entomol. Z.* 55(1): 117-128.
- Brauns, M.; Garcia, X.-F.; Pusch, M. T. 2008. Potential effects of water-level fluctuations on littoral invertebrates in lowland lakes. *Hydrobiologia* 613: 5-12.
- Brettfeld, R.; Bellstedt, R.; Nixdorf, F. 2007. On the aquatic fauna of the Rodach in Southern Thuringia. *Veroeffentlichungen Naturhist. Mus. Schloss Bertholdsburg Schleusingen* 22: 93-106. [In German]
- Brinkman, S. F.; Johnston, W. D. 2008. Acute toxicity of aqueous copper, cadmium, and zinc to the mayfly *Rhithrogena hageni*. *Arch. Environ. Contam. Toxicol.* 54(3): 466-472.
- Buchwalter, D. B.; Cain, D. J.; Clements, W. H.; Luoma, S. N. 2008. Using biodynamic models to reconcile differences between laboratory toxicity tests and field biomonitoring with aquatic insects (vol 41, pp 4821, 2007). *Environ. Sci. Technol.* 42(8): 3117. [Correction]
- Buchwalter, D. B.; Cain, D. J.; Martin, C. A.; Xie, L.; Luoma, S. N.; Garland, T., Jr. 2008. Aquatic insect ecophysiological traits reveal phylogenetically based differences in dissolved cadmium susceptibility. *Proc. Nat. Acad. Sci. U.S.A.* 105(24): 8321-8326.
- Callanan, M.; Baars, J.-R.; Kelly-Quinn, M. 2008. Critical influence of seasonal sampling on the ecological quality assessment of small headwater streams. *Hydrobiologia* 610: 245-255.
- Castellanos, P. M. 2008. Diversity of aquatic macroinvertebrates in a headwater stream in the Moorland of Santurban, Norte de Santander. *Rev. Acad. Colombiana Cienc. Exactas Fisic. Natur.* 32(122): 79-86. [In Spanish]
- Chakona, A.; Phiri, C.; Magadza, C. H. D.; Brendonck, L. 2008. The influence of habitat structure and flow permanence on macroinvertebrate assemblages in temporary rivers in northwestern Zimbabwe. *Hydrobiologia* 607: 199-209.
- Chaves, M. L.; Rieradevall, M.; Chainho, P.; Costa, J. L.; Costa, M. J.; Prat, N. 2008. Macroinvertebrate communities of non-glacial high altitude intermittent streams. *Freshwater Biol.* 53(1): 55-76.
- Christidis, F.; Dean, J. C. 2008. Phylogeny and distribution of the mayfly genus *Austrophlebioides* Campbell & Suter (Ephemeroptera: Leptophlebiidae). *Invertebrate Syst.* 22(1): 29-36.
- Cid, N.; Ibanez, C.; Prat, N. 2008. Life history and production of the burrowing mayfly *Ephoron virgo*

- (Olivier, 1791) (Ephemeroptera : Polymitarcyidae) in the lower Ebro River: a comparison after 18 years. *Aquat. Insects* 30(3): 163-178.
- Clayton, J. A.; Westbrook, C. J. 2008. The effect of the grand ditch on the abundance of benthic invertebrates in the Colorado River, Rocky Mountain National Park. *River Res. Appl.* 24(7): 975-987.
- Collier, K. J. 2008. Temporal patterns in the stability, persistence and condition of stream macroinvertebrate communities: relationships with catchment land-use and regional climate. *Freshwater Biol.* 53(3): 603-616.
- Colville, A.; Jones, P.; Pablo, F.; Krassoi, F.; Hose, G.; Lim, R. 2008. Effects of chlorpyrifos on macroinvertebrate communities in coastal stream mesocosms. *Ecotoxicology* 17(3): 173-180.
- Costa, S. S.; Sanches Melo, A. 2008. Beta diversity in stream macroinvertebrate assemblages: among-site and among-microhabitat components. *Hydrobiologia* 598: 131-138.
- Cover, M. R.; May, C. L.; Dietrich, W. E.; Resh, V. H. 2008. Quantitative linkages among sediment supply, streambed fine sediment, and benthic macroinvertebrates in northern California streams. *J. N. Amer. Benthol. Soc.* 27(1): 135-149.
- Cross, W. F.; Ramirez, A.; Santana, A.; Santiago, L. S. 2008. Toward quantifying the relative importance of invertebrate consumption and bioturbation in Puerto Rican streams. *Biotropica* 40(4): 477-484.
- Csabai, Z.; Mora, A.; Boda, P.; Cser, B.; Malnas, K. 2005. Contribution to the aquatic insect fauna of the northern part of the Bakony Mountains (Ephemeroptera, Coleoptera, Heteroptera and Trichoptera). *Folia Mus. Hist.-Natur. Bakonyiensis* 22: 69-100.
- Cucherousset, J.; Santoula, F.; Fiquerola, J.; Cereghino, R. 2008. How do biodiversity patterns of river animals emerge from the distributions of common and rare species? *Biol. Conserv.* 141(12): 2984-2992.
- Custer, K. W.; Burton, G. A., Jr. 2008. *Isonychia* spp. and macroinvertebrate community responses to stressors in streams utilizing the benthic in situ toxicity identification evaluation (BiTIE) method. *Environ. Pollut.* 151(1): 101-109.
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...and so, as the delicate mayfly of time collides with the speeding windscreen of fate, and the angry wasp of destiny flies up the trouser leg of despair...

Humphrey Lyttelton

I'm Sorry I Haven't a Clue



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