



# The Mayfly Newsletter

Vol. 19(2)  
Winter 2016

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***The Mayfly Newsletter*** is the official newsletter of the Permanent Committee of the International Conferences on Ephemeroptera

## Request for Collaboration: Mayfly Phylogenomic Project

T. Heath Ogden, Department of Biology, SB 242M, Utah Valley University Orem, Utah 84058 USA, E-mail: [heath.ogden@uvu.edu](mailto:heath.ogden@uvu.edu), Phone: (801) 863-6909, Fax: (801) 863-8064, [http://www.uvu.edu/profpages/Heath\\_Ogden](http://www.uvu.edu/profpages/Heath_Ogden),

As you may be aware, I was funded from NSF to carry out a project on the Phylogeny of Mayflies (Ephemeroptera) ([https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=1545281](https://www.nsf.gov/awardsearch/showAward?AWD_ID=1545281)). Our past research lacked robustness, especially along the backbone of the phylogeny. I think that this is due to a combination of factors, such as the age of the nodes, the genes that we used in the dataset, and the taxa available for analysis with well-preserved DNA. I anticipate that greatly increasing the number of loci, across a broad and diverse sampling, will remedy this problem so that we have a clearer picture of the higher level relationships of mayflies. To this end, in this grant we will be targeting over 500 loci to be included in a supermatrix that will then be analyzed to create a phylogenetic tree for the order. We are using a next generation sequencing approach that targets these areas of the genome. In order to carry out this project, high quality genomic DNA is required.

I have a very good collection of mayfly DNA that I have used over the past 15 years. However, in order to carry out this new analysis, it is important to acquire new material. I am therefore sending this request of collaboration to you. I am asking for recent material (around 10 yrs old or newer, or older if it has been kept frozen or at low temperatures) that could be used for DNA extraction. If the specimens are larger, then one specimen is enough, but if they are smaller, then a few specimens are needed to generate the desired DNA yield concentration. Adults or nymphs can be used.

Furthermore, this grant also has funding to carry out RNA transcriptome work. Transcriptome data can be used in conjunction with DNA data for phylogenetic purposes. In addition, we plan to characterize some of the gene expression patterns for different mayfly evolutionary trends. The first one we have identified is to characterize the visual opsin genes in mayflies. For this, it is necessary to collect specimens in RNA Later (or equivalent). Ideally we want adult males for this study, given the interesting eye morphology, but we will also be able to use adult females and nymphs. Transcriptomes require that the mayflies are collected in a different buffer that will preserve the RNA transcripts. If you would like to collaborate on this project, we can send you vials that have RNA Later buffer. Just indicate that you want some of these as well.

I am willing to compensate for collecting materials and postage, just let me know. And I am looking for possible collecting trips as well.

I have included a list of desired taxa (see Table 1). Any of these would be important for the project. Additionally, I would be happy to have new material of any other taxa that you might have recently acquired, and that you would like to contribute to the project. I anticipate your response.

***The Mayfly Newsletter*** is published (on-line) on  
Ephemeroptera Galactica: <http://www.ephemeroptera-galactica.com/>

**contact:** Donna J. Giberson, Editor  
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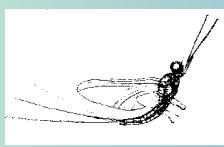


Table 1. Taxa requested for phylogenomic project.

<b>Family</b>	<b>Genus</b>		<b>Family</b>	<b>Genus</b>
Ameletidae	<i>Metreletus</i>		Melanemerellidae	<i>Melanemerella</i>
Ameletopsidae	<i>Chiloporter</i>		Metretopodidae	<i>Metreplecton</i>
Austremerellidae	<i>Austremerella</i>		Neoephemeridae	<i>Neoephemera</i>
Baetidae	<i>Cloeon</i>		Oligoneuriidae	<i>Chromarcys</i>
Baetidae	<i>Jubabaetus</i>		Palingeniidae	<i>Anagenesia</i>
Behningiidae	<i>Behningia</i>		Polymitarcidae	<i>Campsurus</i>
Behningiidae	<i>Protobehningia</i>		Polymitarcidae	<i>Exeuthyploclia</i>
Caenidae	<i>Clypeocaenis</i>		Polymitarcidae	<i>Povilla</i>
Coryphoridae	<i>Coryphorus</i>		Potamanthidae	<i>Anthopotamus</i>
Ephemerellidae	<i>Hyrtanella</i>		Potamanthidae	<i>Potamanthus</i>
Ephemeridae	<i>Eatonica</i>		Potamanthidae	<i>Rhoenanthus</i>
Ephemeridae	<i>Eatonigenia</i>		Potamanthidae	<i>Stygifloris</i>
Ephemeridae	<i>Pentagenia</i>		Prosopistomatidae	<i>Prosopistoma</i>
Ephemerythidae	<i>Ephemerythus</i>		Siphlonuridae	<i>Siphlonisca</i>
Euthyplociidae	<i>Campylocia</i>		Siphlonuridae	<i>Siphlurella</i>
Euthyplociidae	<i>Polyplocia</i>		Siphlonuriscidae	<i>Siphluriscus</i>
Euthyplociidae	<i>Exeuthyploclia</i>		Teloganellidae	<i>Teloganella</i>
Ichthybotidae	<i>Ichthybotus</i>		Teloganodidae	<i>Dudgeodes</i>
Leptohyphidae	<i>Allenhyphes</i>		Teloganodidae	<i>Ephemerellina</i>
Leptohyphidae	<i>Haplohyphes</i>		Teloganodidae	<i>Lestagella</i>
Leptohyphidae	<i>Yaurina</i>		Teloganodidae	<i>Manohyprella</i>
Leptophlebiidae	<i>Castanophlebia</i>		Teloganodidae	<i>Teloganodes</i>
Leptophlebiidae	<i>Paramaka</i>		Tricorythidae	<i>Dicercomyzon</i>
Machadorythidae	<i>Machadorythus</i>		Tricorythidae	<i>Tricorythus</i>

### New Publication: *Mayfly Larvae of Wisconsin*

The University of Wisconsin-Extension, Cooperative Extension recently published ***Mayfly Larvae of Wisconsin*** (G4074) by Dr. Thomas H. Klubertanz. <https://learningstore.uwex.edu/Mayfly-Larvae-of-Wisconsin-P1813.aspx>

This richly illustrated spiral-bound book allows identification of larvae of over 150 mayfly species known from Wisconsin and nearly 40 more ranging from likely to possible in the state. Species accounts detail their ecology and distribution. This peer-reviewed publication includes nearly 400 color photos, maps, and in-depth figures (8.5 x 11," 300 pages; 2016). Cost is US\$60.00. For more information, contact **The Learning Store** at 877-947-7827, [learningstore.uwex.edu](http://learningstore.uwex.edu), or <https://learningstore.uwex.edu/ContactUs.aspx>.

***The Mayfly Newsletter*** is the official newsletter of the Permanent Committee of the International Conferences on Ephemeroptera and is published to facilitate communication among ephemeropterists.

Subscriptions to the Newsletter are free. To place your name on the e-mailing list or to contribute information for the next issue, contact:

Dr. Donna Giberson      (giberson@upei.ca)

*The Mayfly Newsletter*

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ISSN 1091-4935

## Zootaxa Ephemeroptera Editors' Annual Summary and Acknowledgments (2015)

**Jacobus, Luke M.<sup>1</sup>, Sartori, M.<sup>2</sup> & Salles, F.F.<sup>3</sup>**

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*Zootaxa* is a peer-reviewed international journal established in 2001 for rapid publication of high quality papers on any aspect of systematic zoology. It is "the most important outlet for monographs in systematic zoology" (Zhang 2011). From 2010 onwards, *Zootaxa* accounted for 25% of new taxa and other new nomenclatural acts in the Zoological Record (Zhang 2015). A total of 170 papers about Ephemeroptera have been published in *Zootaxa*, from 2002–2015. Twenty-seven of those appeared in 2015, which exceeds the previous record high total of 21 from 2014.

We welcome your contributions, which may be emailed directly to any one of the Ephemeroptera co-editors. Co-editor information may be found at new *Zootaxa* Ephemeroptera Editors page <http://www.mapress.com/j/zt/pages/view/Ephemeroptera>. We emphasize that we will accept only papers with a sole or primary focus of mayfly taxonomy and classification. In order to accelerate the processing of papers by us, please check before you submit that your manuscript meets the subject matter criteria described above, and also consult Dubois et al. (2011) and the journal guidelines, available at <http://www.mapress.com/j/zt/pages/view/forauthors>. We also ask that you inform us if your manuscript has been reviewed formally by others prior to submission to *Zootaxa*.

We endeavor to handle your manuscript in a timely manner, and *Zootaxa* aims to publish each paper within one month after the acceptance by us as editors. We encourage all authors to purchase "open access" if funds are available. Only one paper was published with open access in 2015 (Kluge & Jacobus 2015), and this was due to it being a single page.

The success of the Ephemeroptera section of *Zootaxa*

would be impossible without the volunteered generosity of manuscript reviewers. Being a small community of colleagues, many of those listed below assisted us multiple times. We extend our apologies to anyone who may have been excluded from this list inadvertently. We thank: Javier Alba-Tercedor, Helen Barber James, David Baumgardner, Luciana Belmont, Raphael Boldrini, Steven Burian, Jeane Marcelle Cavalcante, Paulo V. Cruz, Silvio Jose Reis Da Silva, Marcia De Souza, Tomas Derka, Eduardo Domínguez, Daniel Emmerich, Wills Flowers, Jaimie Gama Neto, Ines Goncalves, Peter Grant, Jean-Luc Gattoliat, Maria Eugenia Grillet, Neusa Hamada, Luke Jacobus, Nikita Kluge, Jennifer Kovacs, Lucas Lima, Rodolfo Mariano, Fabiana Massariol, Carlos Molineri, Jeane M.C. Nascimento, Lyndall Pereira, Jan Peters, Erikcsen Raimundi, Fred Salles, Michel Sartori, Paula Souto, Pavel Sroka, Lu Sun, Xiaoli Tong, Jeff Webb, Changfa Zhou, and Dagmara Zyla.

### Literature Cited

- Dubois, A., A. Minelli, Z.Q. Zhang. 2011. Recommendations about nomenclature for papers submitted to *Zootaxa*. *Zootaxa* 2943: 58–62.
- Kluge, N. J., and L. M. Jacobus. 2015. *Monochorotipes*, a replacement name for *Monophyllus* Kluge, 2012 (Insecta: Ephemeroptera), nec *Monophyllus* Leach, 1821 (Mammalia: Chiroptera). *Zootaxa* 3946(1): 150.
- Zhang, ZQ. (2011). Accelerating biodiversity descriptions and transforming taxonomic publishing: the first decade of *Zootaxa*. *Zootaxa* 2896: 1–7.
- Zhang, ZQ. 2015. Defragmentation of journals enhances access and collaboration: commentary on the occasion of *Zootaxa* 4,000. *Zootaxa* 4000: 596–600.

## New Editorial Structure for *Zootaxa* Ephemeroptera Submissions

Luke M. Jacobus, M. Sartori, F. Salles & P. Suter

The Ephemeroptera editors at *Zootaxa* are pleased to announce the addition of a new co-editor, Phil Suter. With four co-editors, we endeavor to process your manuscripts in a more timely manner, while still maintaining our many other responsibilities. We also would like to draw your attention to new taxonomic specializations for each of the four of us, which are indicated on the *Zootaxa* editors' page, or with additional detail in the list at right; however, any one of us still can handle any manuscript.

- Jacobus:** Ephemeridae, Polymitarcyidae, Ephemerellidae, Tricorythidae
- Sartori:** Heptageniidae, Teloganodidae, Siphlonuridae, smaller families
- Salles:** Baetidae, Oligoneuriidae, Isonychiidae, Leptohyphidae
- Suter:** Leptophlebiidae, Caenidae, Coloburiscidae, Oniscigastridae, Ameletopsidae, Nesameletidae

<http://www.mapress.com/j/zt/pages/view/Ephemeroptera>

## Aberdeen Conference Proceedings Published

The Proceedings of the Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera have been published on Zoosymposia:  
[http://www.mapress.com/j/zs/.](http://www.mapress.com/j/zs/)

### News from Mayfly Central

Luke M. Jacobus

Division of Science, Indiana University Purdue University Columbus, Indiana, USA.

A combined Mayfly Central list for North & Central America, as well as some references to species holdings in PERC is now available at [http://pages.iu.edu/~lmjacobs/specieslist\\_North\\_and\\_central\\_america.htm](http://pages.iu.edu/~lmjacobs/specieslist_North_and_central_america.htm).

The career entomological publications of W. P. McCafferty (most available by request in PDF) can be found at [http://pages.iu.edu/~lmjacobs/McC\\_ENTPUB.htm](http://pages.iu.edu/~lmjacobs/McC_ENTPUB.htm).

In other news, the Purdue Entomological Research Collection and Mayfly Central have received a grant from the National Science Foundation. This will be a three-year project, funded at just under US\$500,000.

This project will update the existing storage systems in the collection to ensure they are preserved for future research and education. In addition, specimen images and associated data will be stored in an online database freely available to the public. This project will update the curatorial standards and expand the specimen database. Specific goals include transferring improperly stored specimens into modern drawers and cabinets, integration of recently collected specimens for molecular work, updating the current slide storage system, reorganizing and ethanol-preserved collections. PERC specimen data will be shared and made available online through the Mayfly Central website. [http://www.nsf.gov/awardsearch/showAward?AWD\\_ID=1561448](http://www.nsf.gov/awardsearch/showAward?AWD_ID=1561448)

### Importance of Entomological Collections

Luke Jacobus reported that the Entomological Society of America recently published a position paper on the importance of entomological collections. The statement is available at <http://www.entsoc.org/PDF/2016/ESA-PolicyStatement-EntomologicalCollections.pdf>.

## How to Donate to the International Permanent Committee on Ephemeroptera Scholarship Fund

This fund (Canadian Tax Reg. No. BN 88915 1379 RR001) provides travel scholarships to assist upcoming scientists to attend our international conferences. You have several options to donate to the mayfly travel fund. The committee can accept a cheque, a wire transfer or you can use our PayPal account. More details are provided below.

**1) Cheque.** Please make cheque payable to: "International Permanent Committee on Ephemeroptera" and mail to Alexa at the address below.

**2) Wire transfer.** Account holder: The International Permanent Committee on Ephemeroptera Scholarship Fund, IBAN: CC0010000141783319, Transit: 00014, Account: 1783319, Address: Canadian Imperial Bank of Commerce (CIBC), 448 Queen Street, Fredericton, NB, CANADA, E3B 1B6, SWIFT: CIBCCATT, CIBC Institution #: 010.

**3) PayPal.** Business account: International Permanent Committee for Ephemeroptera Scholarship Fund, Merchant account #: X5YQ83HA2AFML, Email: alexa@ecobmi.com.

Do let me know how I can help if any of this information is unclear.

**Alexa C. Alexander Trusiak,**  
 Permanent Committee Treasurer  
 Environnement et changement climatique Canada |  
 Environment and Climate Change Canada,  
 Department of Biology and Canadian Rivers Institute,  
 University of New Brunswick,  
 #10 Bailey Drive, P.O. Box 4400,



D.Giberson

*Ephemerella aurivillii* from Bosworth Creek, Northwest Territories, Canada.

## 2018 Joint International Conference – Aracruz, Brazil

The 2018 Joint Meeting of the XV International Conference on Ephemeroptera and XIX International Symposium on Plecoptera will take place in Aracruz, Brazil, 2018.

The conference will be held at the SESC Praia Formosa, a pleasant place located less than one hour (or 45 km) from the airport of Vitória, capital of Espírito Santo. With more than 200 rooms, conference halls, exposition areas, restaurants, and a huge area in front of the beach, SESC Praia Formosa is the perfect place for hosting the conference in Brazil.

More information on scientific program, dates, deadlines, costs, proceedings, and accompanying persons program will be available soon at <http://ephemeroptera.com.br/jointmeeting/>. You can also access information on our **International Conference on Mayflies and Stoneflies, BRAZIL, 2018** page on **Facebook** (<https://www.facebook.com/groups/101188675495931/>) or contact us by e-mail ([ffsalles@gmail.com](mailto:ffsalles@gmail.com)).

## Changes at the Mayfly Newsletter

Starting with this issue, Donna Giberson (University of Prince Edward Island) will be joining the Mayfly Newsletter. Donna and Pete are co-editing this issue, then Donna will take over from Peter in Spring 2017.

Pete was the founding editor, and kept the *Newsletter* going for an amazing 25+ years! I'm sure that everyone in the mayfly community would join me in saying **Thank You, Pete!** for so many years of service. Pete continues as Secretary to the Permanent Committee of the International Conferences on Ephemeroptera.

Also starting with this issue, the Mayfly Newsletter is going digital! You will be able to find the issues on *Ephemeroptera Galactica* (<http://www.ephemeroptera-galactica.com>). If you haven't already passed your email address to Pete, remember to contact Donna ([giberson@upei.ca](mailto:giberson@upei.ca)) with your email address if you would like to receive notification when new issues are posted. Unfortunately, due to costs of printing and postage, we won't be able to send the newsletter out by post.

Luke Jacobus is also stepping down this issue from the Mayfly Bibliography. Many thanks to Arnold Staniczek for compiling the recent Ephemeroptera papers for inclusion in this Newsletter. Thanks are due to Luke for doing such a great job of this project for so many years! Arnold is also managing the Ephemeroptera bibliography on *Ephemeroptera Galactica*, so we remind you to send in your notices of new papers, and if possible, pdf copies of the papers to include on the bibliography.

## We're looking for submissions to the Mayfly Newsletter!

Currently, the *Mayfly Newsletter* is published once a year, but we'd like to put out two issues a year. To do this, we need your help.

Do you have anything you'd like to share with your fellow ephemeropterists? In addition to the Notices, Mayfly Bibliography, and information about the upcoming International Meeting, we'd like to include book reviews, notices of upcoming meetings of interest to Ephemeroptera workers, requests for collaboration, and just some interesting notes about mayflies.

So - my question to you - Do you have some spectacular mayfly photos that you'd like to share with your colleagues? Is there a special collecting site or new collecting method whose details would be of interest to other mayfly workers? Have you ever had an adventure in collecting mayflies? We publish our data in our research papers, but sometimes the story behind the story is equally interesting!



D.Giberson

*Hexagenia limbata* from Southern Indian Lake, northern Manitoba, Canada.

## 2015 Ephemeroptera Bibliography

### Compiled by Arnold Staniczek

Staatliches Museum für Naturkunde, Abt. Entomologie, Rosenstein 1, D-70191 Stuttgart, Germany  
[arnold.staniczek@smns-bw.de](mailto:arnold.staniczek@smns-bw.de)

The following list of publications has been compiled for the *Mayfly Newsletter*. It is not intended to be an exhaustive list, but rather it is one that includes papers and reports with a major emphasis on mayflies. Please report corrections and additions to me.

- Abong'o, D.A., Wandiga, S.O., Jumba, I.O., Van den Brink, P.J., Naziriwo, B.B., Madadi, V.O., Wafula, G.A., Nkedi-Kizza, P., and Kylin, H. 2015. Occurrence, abundance and distribution of benthic macroinvertebrates in the Nyando River catchment, Kenya. *African Journal of Aquatic Science* **40**(4): 373-392.
- Almeida, E., and Mariano, R. 2015. New species and first records of *Macunahyphes* Dias, Salles & Molineri, 2005 (Ephemeroptera: Leptohyphidae) from Bahia state, Brazil. *Zootaxa* **4000**(4): 497-500.
- Anbalagan, S., Balachandran, C., Kannan, M., Dinakaran, S., and Krishnan, M. 2015. First record and a new species description of *Dudgeodes* (Ephemeroptera: Teloganodidae) from South India. *Turkish Journal of Zoology* **39**(2): 308-313.
- Angeli, K.B., do Rozario, E.M.M., and Salles, F.F. 2015. Checklist of Ephemeroptera (Insecta) from Sao Mateus River Basin, Espírito Santo, Brazil. *Revista Brasileira de Entomologia* **59**(3): 197-204.
- Aydinli, C., and Ertoran, N. 2015. Species records of Ephemeroptera (Insecta) nymphs in the Gediz River basin with a new record for the Turkish fauna: *Labiobaetis atrebatinus* Eaton, 1870. *Turkish Journal of Zoology* **39**(4): 587-595.
- Belmont, E.L.L., Cruz, P.V., and Hamada, N. 2015. A new species of *Tricorythopsis* Traver, 1958 (Leptohyphidae) and occurrence of Pannota (Insecta: Ephemeroptera) species in Amapa state, Brazil. *Zootaxa* **4007**(1): 104-112.
- Benke, A.C., and Wallace, J.B. 2015. High secondary production in a Coastal Plain river is dominated by snag invertebrates and fueled mainly by amorphous detritus. *Freshwater Biology* **60**(2): 236-255.
- Bergey, E.A., and Cooper, J.T. 2015. Shifting effects of rock roughness across a benthic food web. *Hydrobiologia* **760**(1): 69-79.
- Bethoux, O. 2015. The Late Carboniferous *Triplosoba pulchella* is not a fly in the ointment but a stem-mayfly. *Systematic Entomology* **40**(2): 342-356.
- Bhagawati, R.R., and Gupta, S. 2015. Ecosystem health of Lake Tamrangabeel, Bongaigaon District, Assam, India with special reference to aquatic insect assemblage. *Current World Environment* **10**(2): 500-508.
- Bhowmik, A.K., and Schaefer, R.B. 2015. Large scale relationship between aquatic insect traits and climate. *PLoS ONE* **10**(6): e0130025.
- Bojkova, J., and Soldan, T. 2015. Two new species of the genus *Prosopistoma* (Ephemeroptera: Prosopistomatidae) from Iraq and Algeria. *Zootaxa* **4018**(1): 109-123.
- Boldrini, R., and Barroso, P.C.S. 2015. The male imago of *Paramaka incognita* Dominguez, Grillet, Nieto, Molineri and Guerrero, 2014 (Ephemeroptera: Leptophlebiidae). *Zootaxa* **3957**(2): 231-234.
- Boldrini, R., Santos, G.C., and Oliveira, D.R. 2015. First record of the genus *Lumahyphes* Molineri, 2004 (Ephemeroptera: Leptohyphidae) from Brazil with description of a new species. *Zootaxa* **4013**(1): 143-146.
- Booker, D.J., Snelder, T.H., Greenwood, M.J., and Crow, S.K. 2015. Relationships between invertebrate communities and both hydrological regime and other environmental factors across New Zealand's rivers. *Ecohydrology* **8**(1): 13-32.
- Boonsoong, B., and Sartori, M. 2015. A new species of *Compsocheirilla* Ulmer, 1939 (Ephemeroptera: Heptageniidae) from Thailand. *Zootaxa* **3936**(1): 123-130.
- Boonsoong, B., and Sartori, M. 2015. The nymph of *Gilliesia* Peters & Edmunds, 1970 (Ephemeroptera: Leptophlebiidae), with description of a new species from Thailand. *Zootaxa* **3981**(2): 253-263.
- Brand, C., and Laura Miserendino, M. 2015. Testing the performance of macroinvertebrate metrics as indicators of changes in biodiversity after pasture conversion in Patagonian mountain streams. *Water Air and Soil Pollution* **226**(11): 370.
- Brito, P., Mancini, K., Salles, F.F., Rizzi, E.A., and Dolder, H. 2015. The sperm of *Hexagenia (Pseudeatonica) albivitta* Walker (Ephemeroptera: Fossoriae: Ephemeridae). *Acta Zoologica (Copenhagen)* **96**(2): 160-166.
- Brown, B.L., Ringler, N.H., and Schulz, K.L. 2015. Sediment and water quality limit mayfly survivorship in an urban lake undergoing remediation. *Lake and Reservoir Management* **31**(2): 145-156.
- Brown, L.E., Holden, J., Palmer, S.M., Johnston, K., Ramchunder, S.J., and Grayson, R. 2015. Effects of fire on the hydrology, biogeochemistry, and ecology

### Need PDFs for EG

**Two questions:**

**Have you published a paper on mayflies?  
If so, did you send a PDF to EG?**

Ephemeroptera Galactica (EG) is a web site that was developed by Mike Hubbard and is now maintained by Arnold Staniczek. One of the great features of EG is the bibliography of mayfly literature at this site. PDFs of hundreds of mayfly articles are available. To keep this bibliography updated, please send a PDF of your articles on mayflies to Arnold ([arnold.staniczek@smns-bw.de](mailto:arnold.staniczek@smns-bw.de)).

- of peatland river systems. *Freshwater Science* **34**(4): 1406-1425.
- Brulin, M. 2015. Additions to the Ephemeroptera fauna of France (15): *Acentrella inexpectata* (Tshernova, 1928) (Ephemeroptera, Baetidae). *Ephemera* **16**(1): 13-17.
- Brulin, M. 2015. Discovery of a teratological specimen of *Baetis vernus* with an additional pair of wings (Ephemeroptera, Baetidae). *Ephemera* **15**(1): 67-68.
- Buckman, K.L., Marvin-DiPasquale, M., Taylor, V.F., Chalmers, A., Broadley, H.J., Agee, J., Jackson, B.P., and Chen, C.Y. 2015. Influence of a chlor-alkali superfund site on mercury bioaccumulation in periphyton and low-trophic level fauna. *Environmental Toxicology and Chemistry* **34**(7): 1649-1658.
- Burmester, T. 2015. Evolution of Respiratory Proteins across the Pancrustacea. *Integr Comp Biol* **55**(5): 792-801.
- Cardoni, S., Tenchini, R., Ficulle, I., Piredda, R., Simeone, M.C., and Belfiore, C. 2015. DNA barcode assessment of Mediterranean mayflies (Ephemeroptera), benchmark data for a regional reference library for rapid biomonitoring of freshwaters. *Biochemical Systematics and Ecology* **62**: 36-50.
- Cardoso, M.N., Shimano, Y., Nabout, J.C., and Juen, L. 2015. An estimate of the potential number of mayfly species (Ephemeroptera, Insecta) still to be described in Brazil. *Revista Brasileira de Entomologia* **59**(3): 147-153.
- Castro-Rebolledo, M.I., and Donato-Rondon, J.C. 2015. Emergence patterns in tropical insects: the role of water discharge frequency in an Andean Stream. *Annales de Limnologie* **51**(2): 147-155.
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