

8-1-2019

The Mayfly Newsletter

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Recommended Citation

Giberson, Donna J. (2019) "The Mayfly Newsletter," *The Mayfly Newsletter*. Vol. 22 : Iss. 1 , Article 1.
Available at: <https://dc.swosu.edu/mayfly/vol22/iss1/1>

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The Mayfly Newsletter

Vol. 22(1)
Summer 2019

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

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Chiloporter eatoni Lestage (Ameletopsidae) from Rio Malleco, Parque Nacional Tolhuaca, Araucania, Chile. 25 November 2013. © Gregory W Courtney.....1

Epeorus pleuralis (Banks) (Heptageniidae) from Mill Brook, East Branch of the Delaware River in New York, USA. © Dave Funk,2

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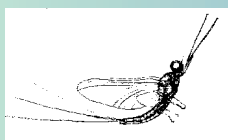
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Feature Photos:

Images from Greg Courtney & Dave Funk



Chiloporter eatoni Lestage (Ameletopsidae) (regular and black morph) from Rio Malleco, Parque Nacional Tolhuaca, Araucania, CHILE. 25 November 2013. © Gregory W Courtney, Iowa State University, Ames.



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Epeorus pleuralis (Banks) (Heptageniidae) from Mill Brook, East Branch of the Delaware River in New York, USA. © Dave Funk, Stroud Water Research Center, Avondale, PA USA

Seeking a western North American Ephemeroptera for Culturing and Use in Laboratory Bioassays

Michael B. Griffith
U.S. Environmental Protection Agency, Office of Research and Development,
Cincinnati, Ohio, USA
(E-mail: griffith.michael@epa.gov)

Most are aware of the culture and use of the eastern baetid, *Neocloeon triangulifer*, in acute and chronic laboratory bioassays. Taking a regional outlook, the toxicologists here at U.S. EPA are seeking a species that might be similarly cultured and used in bioassays that is native to western North America. A prime candidate species would be parthenogenic, multivoltine (maybe bivoltine), and widely distributed in states and provinces west of Missouri. Any EPT species would be suitable, but an Ephemeroptera is most likely to meet the above criteria.

Status update, and seeking specimens of *Thraulus* (Leptophlebiidae)

Dear Colleagues,

I hope this letter finds you well. I have two pieces of information to share.

First, I will retire from Southwestern Oklahoma State University on 1 July 2019. Please use this email to contact me in the future: peter7grant@gmail.com.

Second, I have permission to continue my research at the university. My first, and full-time, research project will be to complete the revision of *Thraulus* (Leptophlebiidae). I would be interested in examining any specimens of *Thraulus* that you might have. My mailing address will be Department of Biological Sciences, Southwestern Oklahoma State University, 100 Campus Drive, Weatherford, Oklahoma 73096-3098 USA. Please contact me first if you plan to send specimens.

Pete Grant

Zootaxa Ephemeroptera Editors' Annual Summary and Acknowledgments (2018)

Jacobus, Luke M.¹, Sartori, M.², Salles, F.F.³, Suter, P.⁴

¹Division of Science, Indiana University Purdue University Columbus, Indiana, USA. Email: luke.jacobus@gmail.com

²Musée cantonal de zoologie, Palais de Rumine, Place de la Riponne 6, CH-1014 Lausanne, Switzerland. Email: michel.sartori@vd.ch

³Departamento de Ciências Agrárias e Biológicas, Universidade Federal do Espírito Santo, Brazil. Email: ffsalles@gmail.com

⁴Emeritus Scholar, Department of Ecology, Environment and Evolution. La Trobe University, Albury-Wodonga, Wodonga, Victoria, 3689, Australia. Email: p.suter@latrobe.edu.au

A total of 233 papers with a primary focus on Ephemeroptera have been published in *Zootaxa* from 2002–2018. Eighteen of those appeared in 2018.

Beginning in 2019, Phil Suter will retire from service as one of our co-editors. Updated co-editor information and taxonomic specializations may be found at the *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, classification and nomenclature. All nomenclatural acts must conform to the 1999 edition of the International Code of Zoological Nomenclature, with 2012 amendments pertaining to e-publication. The Code is available online at <http://www.iczn.org/iczn/index.jsp>. Papers strictly about phylogeny will be considered on a case by case basis. 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. Recommendations about nomenclature for papers submitted to *Zootaxa*. *Zootaxa* 2943: 58–62) and the journal guidelines, available at <http://www.mapress.com/j/zt/pages/view/forauthors>. All papers must be well-written in English.

While no fees are required to submit to, and publish in, *Zootaxa*, you are encouraged to purchase “open access” if funds are available in order to ensure the widest readership of your work.

The success of the Ephemeroptera section of *Zootaxa* would be impossible without the many manuscript reviewers who volunteer their time and expertise to ensure quality scientific publications, often many times per year. We extend our apologies to anyone who may have been excluded from this list inadvertently. For reviews completed during 2018, we thank:

Helen Barber-James	Daniel Emmerich	Alexander Martynov	Paula Souto
Rafael Boldrini	R Wills Flowers	Fabiana Massariol	Pavel Sroka
Boonsatien Boonsoong	Jean-Luc Gattolliat	Carlos Molineri	Arnold Staniczek
Jeane Marcelle Cavalcante do Nascimento	Jaime de Liege Gama Neto	Julia Mynott	Tatyana Tiunova
Paulo Cruz	Roman Godunko	Carolina Nieto	Xiaoli Tong
Marcia de Souza	Inês Gonçalves	Ranalison Oliarinony	Laurent Vuataz
Lucimar Dias	Meyer Guevara	Janice Peters	André Wagner
Eduardo Dominquez	Nikita Kluge	Erikcsen Raimundi	Jeff Webb
Ren Dong	Boris Kondratieff	Fabian Sibaja	Oscar Vasquez
	Lucas Lima	KG Sivaramakrishnan	Zohar Yanai.

Announcing Eagle Hill Institute’s seminars on Ephemeroptera and other aquatic insect groups in 2019

EPT Taxa: Ephemeroptera, Plecoptera, and Trichoptera Aug 11–17

(Optional SFS EPT certification exam)

Steven Burian

(<https://eaglehill.us/programs/nhs/seminar-flyer-pdfs/2019%20Burian%20copy.pdf>)

Dragonflies and Damselflies: Field Techniques, Identification, & Natural History Jul 21 - 27

Michael Blust

<http://eaglehill.us/programs/nhs/seminar-flyer-pdfs/2019%20Blust.pdf>

Other seminars on insects (and spiders)

Insect and Spider Biology “Through the Lens” Jun 23 – 29

Kefyn Catley

Leaf and Stem Mining Insects Jul 28 – Aug 3

Charley Eiseman

Microlepidoptera: Collection, Preparation, Dissection, Identification, and Natural History Aug 4 – 10

Jason Dombroskie and Kyhl Austin

The following flyer has links to individual seminar flyers

<https://mادميمي.com/s/38539d>

For general information and a complete calendar: <https://www.eaglehill.us/programs/nhs/nhs-calendar.shtml>

Email: office@eaglehill.us

207-546-2821 Ext 4



Blust



Burian



Burian

Report from SWOSU Digital Commons

Phillip Fitzsimmons

Reference and Digitization Librarian, Al Harris Library
Southwestern Oklahoma State University

The *Mayfly Newsletter* is available on the SWOSU Digital Commons: <https://dc.swosu.edu/mayfly/>.

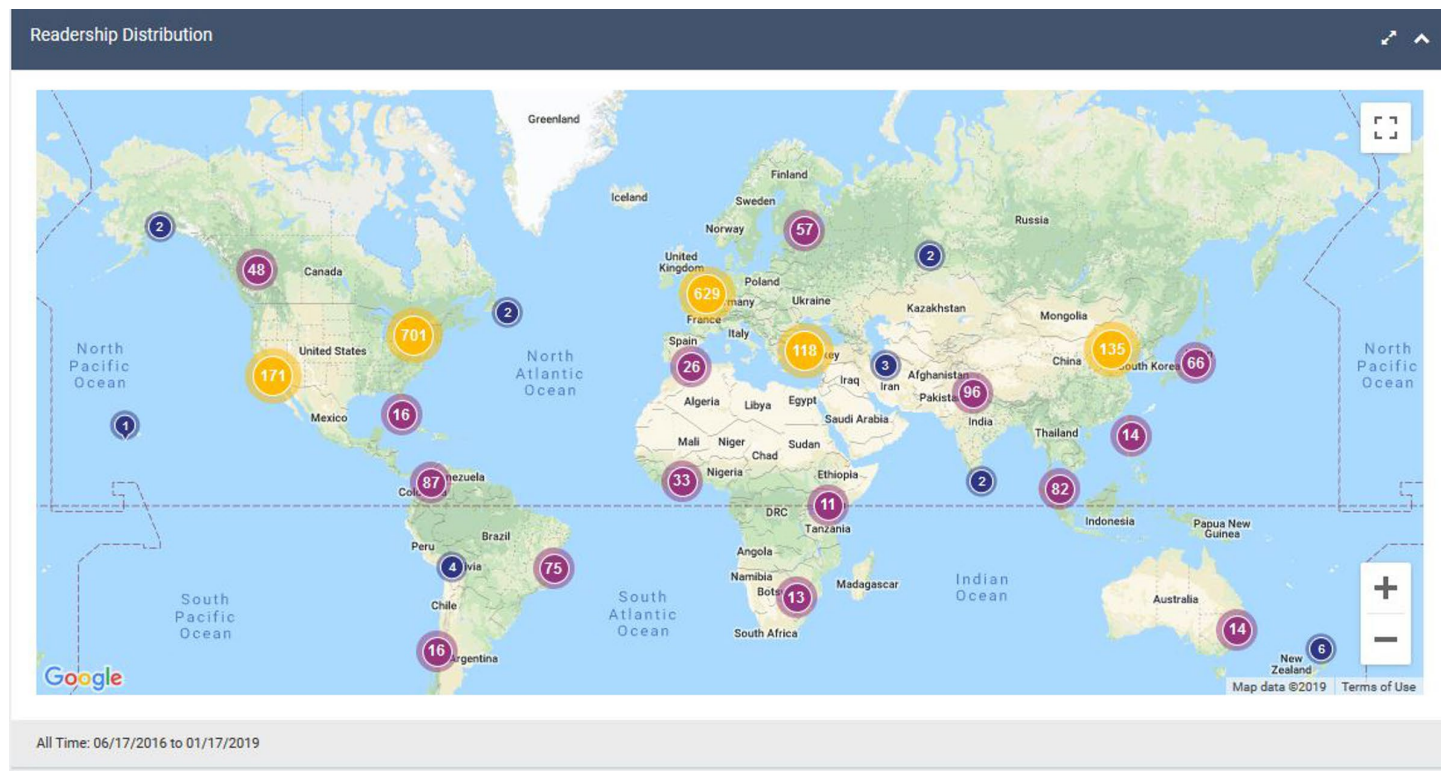
Here, at the beginning of 2019 I would like to share some usage statistics for the *Mayfly Newsletter* for the time it has been on the SWOSU Digital Commons. See below for the "dashboard map" showing how many times internationally the issues have been downloaded since we began uploading the newsletter. The 41 issues have been downloaded 2,512 times in 100 countries, from 272 institutions.

These are healthy numbers and provide proof that you are reaching people. Please share this information with other members of your organization.

A way to improve Google search engine ranking (raising where the newsletter appears in search results) would be if your organization would create a link from your site homepage at: <http://www.ephemeroptera-galactica.com/index.php> to the SWOSU Digital Archive page for the newsletter at: <https://dc.swosu.edu/mayfly/>. The ranking goes up for every external site that a webpage is linked to.

Editor's note:

This is evidence that changing to a digital format newsletter has allowed us to reach many new people with the *Mayfly Newsletter*. According to the former Editor, Peter Grant, the printed version of the MFNL was sent to people in 51 countries, compared to the digital version, which now reaches 100 countries!



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.** Wire transfer. By arrangement with the treasurer. Please email alexa@ecobmi.com
- 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

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+001-506-447-3496

alexa@ecobmi.com

NOUVEAU | NEW: alexa.alexander-trusiak@canada.ca

Need PDFs for Ephemeroptera Galactica

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).

In Memorium

Hugh F. Clifford passed away at the age of 87 in Calgary, Alberta (Canada) on Easter Sunday, April 21, 2019. Hugh worked as a Fisheries Biologist in Columbia, Missouri from 1960 to 1962 after graduating with an MSc from Michigan State University in 1960. He earned a PhD in 1965 from Indiana University, then began his career at the University of Alberta (Edmonton, Canada). Hugh taught Invertebrate Zoology and other courses from 1965 to 1995, retiring from the Department of Biological Sciences to become Professor Emeritus. Hugh is survived by his wife Joan, daughter Marie Clifford and her husband Rick Laughlin, son John Clifford, granddaughter Jacqueline Clifford and her partner Jamie Huff, sister Josie Frase and her husband Don, two nieces and two nephews.

Hugh had a particular interest in stream ecology, and made many significant contributions to the life histories and basic biology of stream invertebrates in addition to his role as a mentor to scores of students. An article written following his nomination for the Rutherford Teaching Award at the University of Alberta noted: His years of familiarity and fondness for the subject rub off on his students: "He illustrated almost every group of invertebrates with anecdotes of personal encounters with the creatures, and spoke of their lives with evident enthusiasm and affection," one student remembers, "It was this enthusiasm that fired my own interest in invertebrates."

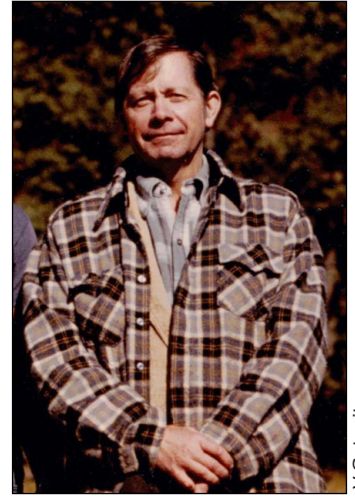
Much of Hugh's research focussed on the Bigoray River, a brown-water stream in the boreal natural region of the Athabasca River basin in north-central Alberta, although he and his students also published on many other aquatic habitats in the region. Their studies ranged from examining the life histories, drift, and colonization of benthic macroinvertebrates on natural and artificial substrata, as well as habitat features and limnology of Alberta aquatic habitats, to studies on zoobenthos sampling methods. His academic publications included key papers on the ecology of an aquatic isopod and amphipod in an intermittent stream in Indiana (based on his PhD), papers focused on the Bigoray River and other habitats, and papers on the life history and ecology of Ephemeroptera and other aquatic species. Several of his papers have been cited over 70 times in scientific publications; of note, *Life cycles of mayflies (Ephemeroptera), with special reference to voltinism*, has been cited almost 200 times (Google Scholar). He was also an author on numerous papers by his graduate students on the life history, behaviour and ecology of a wide diversity of aquatic invertebrates in streams, ponds and lakes. His former students went on to successful careers as university professors (across Canada and in the USA), college instructors, and scientists in government and the private sector.

In addition to his publications, Hugh's pioneering work on the diversity of invertebrates in Alberta's sloughs, lakes and streams has left two enduring legacies. One is his 1991 book "*Aquatic Invertebrates of Alberta*", published by the University of Alberta Press and much beloved for its user-friendly flowchart keys. Hugh's book is still used to teach Zoology 351, "Freshwater Invertebrate Diversity", a course that he ran for many years and that continues to act as a training ground for young freshwater ecologists. The second is the University of Alberta Freshwater Invertebrate Collection. The collection houses more than 4500 accessioned specimens ranging from rotifers to crayfish, mostly from Alberta and adjacent provinces and territories. Among its most important components are the Alberta Oil Sands Environmental Research (AOSERP) specimens. These were collected in the late 1970s, and serve as testament to the biodiversity in northern Alberta prior to the major oilsands developments in this region.

Aside from his academic research, Hugh was deeply committed to the teaching of undergraduate courses. In particular, he was renowned and praised by students for his approach to teaching, not using lecture notes, and his ability to remember the names of all students in very large classes.

Hugh received the Science Award for Excellence in Undergraduate Teaching in Science (1980), the Rutherford Award for Excellence in Undergraduate Teaching (1993), and the Dr. E.E. Ballantyne Award for Excellence in Environmental Research (1992).

Richard Casey, Heather Proctor, Jan Ciborowski, and Donna Giberson.



V.Gotceitas

**Hugh F. Clifford
1931 - 2019**



Clifton Lee Van On

Attendees at a luncheon of recognition for Hugh Clifford. Calgary, AB. NABS meeting - June 1993.

Front row: Joan Clifford & Hugh Clifford
Remainder, from upper left: Mike Robertson, Hal Hamilton, Mel Hutchinson (upper), Anne-Marie Anderson (lower), Lynda Corkum, Rob Baker, Dave Rosenberg, Donna Giberson, John Richardson, Clifton Lee Van On, Karen Saffran, Mark Dunningan, Joe Rasmussen, John Retallick, Heather Proctor, Gertie Hutchinson, Jim Stelfox, Nancy Munn, Cheryl Podemski, Brad Anholt, Jan Ciborowski, Grant Moldenhauer (upper), Richard Casey (lower), Todd Folsom.

In Memorium

It is with sadness that we share the news of the death of Pierre-Paul (Peter) Harper who passed away at home in Saint-Hubert, Québec, Canada, on April 29, 2019 at the age of 76.

Pierre-Paul Harper completed a Classics (BA) at Laval University in Québec in 1963 followed by a Bachelor's and a Master's degree in Science (Biology-Zoology) at the Université de Montréal (UdeM) in 1966 and 1967, respectively. He completed his PhD in 1971 at the University of Waterloo (Ontario). His graduate studies focused on aquatic entomology (Ephemeroptera and Plecoptera).

Peter was a faculty member at the Université de Montréal (UdeM), and taught a diverse mix of courses from entomology to the history of biology, through ecology and bioethics, before retiring in 2004. Over his time at UdeM, he had nearly 1,200 students in entomology, 3,000 in bioethics (from 1993 to 2003) and over 8,000 in general ecology. In addition, he trained 16 graduates at the master's and PhD level.

His research was on systematics, taxonomy and biogeography of aquatic insects; mainly stoneflies and mayflies, but also a variety of other taxa, including Trichoptera, empidid Diptera, black flies and water beetles. His published works include important larval keys to several stonefly families in eastern Canada as well as life history and distributional studies on many species of mayfly and stonefly. His main focus was on streams in eastern Canada (particularly Québec), but he also published on streams of western and northern Canada, as well as further afield, from France, the US, Nepal, and South America. Many of his mayfly works were co-authored by his wife and fellow mayfly researcher, Françoise, who pre-deceased him in 2005.

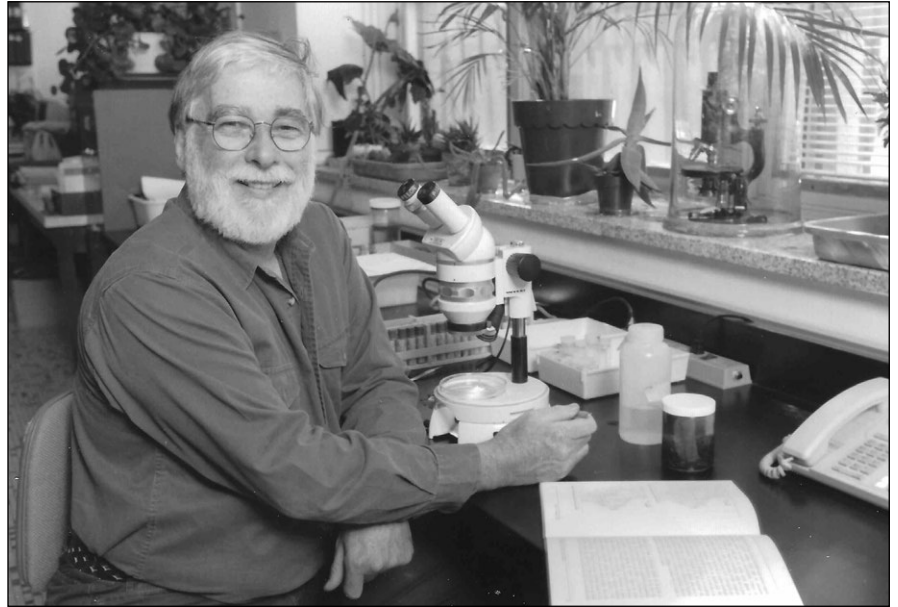
Peter was director of the Laurentian Biology Station (Station de biologie des Laurentides) four times, for a total of 10 years. He was also a curator of the Collection entomological Ouellet-Robert at UdeM from 1971 until his retirement in 2004. It was during his tenure that in 1984 the Ouellet-Robert Collection was officially inaugurated and given a name. This collection of 1,500,000 insects and over 21,000 species is now recognized as the most representative of Quebec's entomofauna, especially for groups of aquatic insects. Peter also contributed greatly to the Entomological Society of Canada as a volunteer translator for many years.

Many of us will remember Peter mainly as an expert in the taxonomy and biology of aquatic insects, but he had wide interests, including theology, philosophy, and ethics. His students frequently commented on how they were impressed by his passion for insects, how he could present complex ideas in easy to understand ways, and how he gave them a taste to learn always, and always more.

Donna J. Giberson, with material from Colin Favret (Collection entomological Ouellet-Robert) and de Oliveira (2008).

Reference:

de Oliveira, D. 2008. Pierre-Paul Harper, à la recherche du savoir pour mieux l'enseigner. *Antennae* 2008, **15** (1): 1



Pierre-Paul (Peter) Harper

1942 - 2019



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

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 project updates, book reviews, notices of upcoming meetings of interest to Ephemeroptera workers, requests for collaboration, and any interesting notes about mayflies.

So - my questions to you - Are you looking for collaborators on a project? 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!

Deadlines:

- Summer issue: May 15

- Winter issue: Dec. 1

The *Mayfly Newsletter*

Starting with the Winter 2016 issue, the Mayfly Newsletter has gone digital! You will be able to find the link to the issues on the Digital Commons site: <https://dc.swosu.edu/mayfly/> (or see link on *Ephemeroptera Galactica* (<http://www.ephemeroptera-galactica.com>)). If you haven't already passed your email address to Peter Grant, remember to contact Donna (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 a printed newsletter out by post.

However, original copies of many of the printed issues are still available Contact Peter Grant if you would like a set and he can arrange to send them to you: peter.grant@swosu.edu

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:

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ISSN 1091-4935