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The Mayfly Newsletter

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Joint International Conference News

2015 Joint International Conference

The James Hutton Institute and Buglife are honoured to host the “2015 Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposia on Plecoptera”, being organized for the first time in Scotland.

Our aim is to offer an exciting meeting, where scientists, experts and students will present their recent work, exchange ideas, make important connections and enjoy social gatherings in the pleasant surroundings of Aberdeen, Royal Deeside and the Cairngorms National Park.

We welcome presentations (oral and poster) on all aspects of Ephemeroptera and Plecoptera research.

Information on the Conference, a Draft Programme and the Registration/Abstract submission form are available on the James Hutton Institute’s website: http://www.hutton.ac.uk/events/international-conference-ephemeroptera-and-plecoptera. Early bird registration is open until 20 February. Standard registration closes on the 31st March.

For all additional questions, please do not hesitate to ask!

Craig Macadam (craig.macadam@buglife.org.uk)
Jenni Stockan (jenni.stockan@hutton.ac.uk)

Auction to Benefit Travel Scholarship

An auction will be held at the International Conference in Scotland 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.

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 and tied flies for fly-fishing would be good options, too. Rare or unusual mayfly specimens have been very popular at past meetings.

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 Scotland.

If you will not be attending the meeting, but would like to donate items for the auction, please contact Craig Macadam, Buglife – The Invertebrate Conservation Trust, Balallan House, 24 Allan Park, Stirling, FK8 2QG, Scotland, craig.macadam@buglife.org.uk, to make arrangements.

If you would like to make a financial donation to this fund, please contact the Treasurer of the Permanent Committee, Alexa C. Alexander Trusiak, NSERC Visiting Fellow, Environment Canada at the Department of Biology and Canadian Rivers Institute, University of New Brunswick, #10 Bailey Drive, PO Box 4400, Fredericton, NB, Canada E3B 5A3, alexa@ecobmi.com.

Submit Pre-proposals for 2021 Conference

During the international joint conference in Japan, the mayfly and stonefly organizing committees accepted proposals to host the next two conferences – Scotland in 2015 and Brazil in 2018. 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 typically not be made until three years prior to the actual conference date.

If you would like to host a conference after Brazil, or if you have questions about hosting a conference or submitting a proposal, please contact Michel Sartori (michel.sartori@vd.ch).
Precision about Ryszard Sowa (1934-1989) Collection and Depository

Michel Sartori, Museum of Zoology, Palais de Rumine, Place Riponne 6, CH-1005 Lausanne, Switzerland (michel.sartori@vd.ch)

In their recent book devoted to the mayflies of Europe (2012, Apollo Books, Ollerup), Ernst Bauernfeind and Tomas Soldán frequently mentioned the following statement when dealing with species described by Sowa: “Type material (...) formerly in coll. R. Sowa, now in Musée Cantonal de Zoologie, Lausanne, Switzerland”. This statement needs some clarification.

A couple of months after Ryszard passed away, in the early nineties, I made a trip to Krakow and visited her PhD student Malgorzata Klonowska. She informed me that the policy at the Jagiellonian University of Krakow was changing, and the chair of hydrobiology held by Ryszard would certainly not be renewed... even the Department of Hydrobiology would probably be closed within a couple of years. She expressed her concern about Sowa’s collection, especially the type material, and feared that this invaluable material could be simply thrown away. She asked me if this collection could be housed in Lausanne to avoid such tragedy. I accepted saying that this was only temporary and I expressed my hope that the collection could be returned in Krakow in the near future.

The type material collection, composed of specimens in ethanol and slide preparations, was brought to Lausanne by Malgorzata during the 8th International Conference on Ephemeroptera in 1995. This collection was well kept in our museum for the next 15 years. During that period, the Institute of Environmental Sciences in Krakow went through several reforms (see http://www.eko.uj.edu.pl/index.php/en/institute/history for further details) and finally Malgorzata left her position a couple of years ago. This made the return of the collection to Krakow highly problematic, since no one seemed interested anymore in faunistic and systematic studies of mayflies.

It was finally decided that the collection should return as close as possible to its home, and in 2012, the whole material was transported by Pavel Sroka from Lausanne to the Institute of Entomology, Czech Academy of Sciences, Ceske Budejovice where Tomas Soldán was still active and co-authored the description of numerous new species with Ryszard Sowa.

Scientists interested in studying Sowa’s type material should therefore address their inquiry to Tomas Soldán or his collaborators Pavel Sroka or Roman Godunko.

Expansion and Growth of Mayfly Central Website

Luke M. Jacobus, Indiana Univ. Purdue Univ. Columbus, lukemjacobus@alumni.purdue.edu

We recently expanded the North American coverage area of Mayfly Central for the first time since its inception in 1995 with the small addition of Greenland. We are considering some more drastic changes for future Mayfly Central updates, perhaps as soon as this summer, and I would like your feedback so that any efforts expended will be the best for the community.

Pat McCafferty and I have been discussing various options. One idea is to modify our lists of species to be for North America north of Mexico and for Mesoamerica (including Mexico and Central America), rather than the current North America (Mexico and points north) and Central America (points south of Mexico) lists. This change would reflect how we perceive people are using the lists. Also, we are considering adding a section for outlying areas, such as Cuba & other islands of the Greater Antilles and Hawai’i & Pacifica.

Another option is to combine the North & Central American lists into one, and this one list might also include the outlying areas.

Your input will help us decide how to make Mayfly Central most useful.


Formal updates are being made twice per year, with January and June being the targets. Please report any omissions or errors.
Zootaxa Ephemeroptera Editors’ Annual Summary and Acknowledgments (2014)

Luke M. Jacobus1, F. F. Salles2 & Michel Sartori3

1Division of Science, Indiana University Purdue University Columbus, Indiana, USA. Email: luke.jacobus@gmail.com; 2Departamento de Ciências Agrárias e Biológicas, Universidade Federal do Espírito Santo, Brazil. Email: ffsalles@gmail.com; 3Musée cantonal de zoologie, Palais de Rumine, Place de la Riponne 6, CH-1014 Lausanne, Switzerland. Email: michel.sartori@vd.ch

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” and has published nearly a quarter of all new animal taxa in recent years (Zhang 2011). A total of 143 papers about Ephemeroptera have been published in Zootaxa, from 2002 - 2014.

During 2014, 29 new species, one new subgenus and one new tribe of mayflies were described and named in Zootaxa. These and other contributions were made in 21 peer-reviewed papers by 32 different authors, totaling 297 pages. This is the highest number of Ephemeroptera papers published in Zootaxa during any single year. Papers ranged in length from three to 32 pages; median page length was 12. Two papers were made available with full “open access” by the authors (Pereira da Conceicao & Barber-James 2013; Jacobus & Wiersema 2014).

Eighteen of the 21 papers were published during the first seven months of the year. During June, Fred Salles stepped down as a co-editor, and Michel Sartori joined as a new co-editor during July. We thank everyone for your patience during the transition period that followed. We are now processing papers efficiently and effectively for 2015, with at least a dozen currently in some stage of review or revision as of this writing (early February).

Please visit the Ephemeroptera section of Zootaxa at http://www.mapress.com/zootaxa/taxa/Ephemeroptera.html. We welcome your contributions, and we endeavor to handle them in a timely manner. We emphasize that we prefer to accept only papers with a sole or primary focus of mayfly taxonomy and classification. Several papers were rejected by us during 2014, most commonly due to subject matter outside this scope. In some other instances, the reviewers consistently suggested that authors complete more research before resubmitting the paper. For example, please avoid citation of unpublished phylogenetic analyses or unpublished classifications, and please avoid excessive citation of manuscripts in review; often, despite our best intentions, such works never get published or otherwise disseminated. Accepted manuscripts should be stand-alone works that contain verifiable information and repeatable procedures.

In order to accelerate the processing of papers by us, please check before you submit that your manuscript meets the criteria described above, and also consult Dubois et al. (2011) and the journal guidelines, available at http://www.mapress.com/zootaxa/support/author.html. We also ask that you inform us if your manuscript has been reviewed formally by others prior to submission to Zootaxa. Zootaxa aims to publish each paper within one month after the acceptance by editors. We encourage all authors to purchase “open access” if funds are available.

The success 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 sincerely thank the following individuals for their contributions to the review process during 2014: Helen Barber-James, Ernst Bauerfeind, David Baumgardner, Boonsatien Boonsoong, Sabrina Costa, Marcia Regina de Souza, Eduardo Dominguez, David Funk, Jean-Luc Gottotliat, Roman Godunko, Ines Goncalves, Arne Hymbach, Nikita Kluge, Jennifer Kovacs, Rodolfo Mariano, Fabiana Massariol, Carlos Molineri, Jeane C. M. Nascimento, Carolina Nieto, Lyndall Pereira, Cleber Polegatto, Jakub Prokop, Tomas Soldan, Pavel Sroka, Arnold Stanciecz, Lu Sun, Xiaoli Tong and Jeff Webb.

LITERATURE CITED


Thank You, Elda!

The Permanent Committee recently learned that Dr. Elda Gaino has retired. Besides publishing many articles on mayfly ultrastructure, she also organized the 2001 joint international conference in Perugia, Italy.

There is a nice bibliography about Elda on Ephemeroptera Germanica (http://www.ephemeroptera.de/inhaltsverz_deutsch/Galerie___/Gaino/gaino.html).

We wish Elda the best during her retirement and are thankful for the opportunity to work with her as a colleague and a friend.

Enzyme Systems in Mayflies

I have a contact who is looking for information about enzyme systems in mayflies, particularly Hexagenia, and how they might be affected by temperature. If anyone in this group could suggest a contact, it would be appreciated. Thanks. Tom Klubertanz (tom.h.klubertanz@uw.edu). [Reprinted from Mayfly Central]

Scotland Travel Information on the Web

2015 Joint International Conference
http://www.hutton.ac.uk/events/international-conference-ephemeroptera-and-plecoptera

Scotland Tourist Information
Visit Scotland http://www.visitscotland.com/
Aberdeen http://www.visitarbdeen.com/
Highlands http://www.visithighlands.com/
Travel Scotland http://www.scotland.org.uk/
Discover Scotland http://www.discoverscotland.net/

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This newsletter is printed on recycled paper using vegetable-based inks. This paper meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper). The wood used to make this paper was obtained from suppliers who use sustainable forestry practices.
2013 Ephemeroptera Bibliography

Compiled by Luke M. Jacobus
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I put together the following list of publications as part of the Society for Freshwater Science’s 2013 Literature Review for Ephemeroptera. It is organized by general themes: taxonomy & systematics; distribution; ecology, physiology & toxicology. It is not intended to be an exhaustive list, but rather it is one that includes papers with a major emphasis on mayflies. A couple of technically unpublished papers are included. I made efforts to verify each citation, but in a few cases, I was unable to obtain the actual publication. Also, I am sure that I made errors. Please report corrections to me.

I hope to remain on the SFS Literature Review Committee for several years, so please send me citations for your publications, so that I can be sure to include them. Of course, I prefer to receive copies of the publications themselves to add to the Ephemeroptera literature collection from Purdue, most of which is now in my care. If you have literature that you cannot locate, please let me help.


Brasil LS; Shimano Y; Batista JD; et al. 2013. Effects of environmental factors on community structure of Leptophlebiidae (Insecta, Ephemeroptera) in Cerrado streams, Brazil. Iheringia Serie Zoologia 103(3): 260-265.


Echols BS; Currie RJ; Cherry DS; et al. 2013. Seasonal availability and sensitivity of two field-collected mayflies for the development of a standardized toxicity test. Environmental
Hwang JM; Yoon TJ; Suh KI; et al. 2013. Molecular phylogeny.


Kluge NJ; Godunko RJ; Apanaskevich DA. 2013. Mayflies of the Northwest and Western North American mayfly larvae (Insecta: Ephemeroptera) and the first key to adults from Brazil. Zootaxa 3709(3): 230-242.

Lock K; Goethals PLM. 2013. Habitat suitability modeling for mayflies (Ephemeroptera) in Flanders (Belgium). Ecological Informatics, Special Issue, 17: 30-35.

Luoto, TP; Helama S; Nevalainen L. 2013. Stream flow intensity...
of the Saavanjoki River, eastern Finland, during the past 1500 years reflected by mayfly and caddisfly mandibles in adjacent lake sediments. Journal of Hydrology 476: 147-153.


Massariol FC; Costa Lima LR; Pinheiro UDS; et al. 2013. Two-winged Cloeodes in Brazil: New species, stage description, and key to South American species. Journal of Insect Science 13(60).


Nicola D; Gil A; Tripole S. 2013. New record and distribution extension of Baetodes huaico Nieto (Ephemeroptera: Baetidae) from the province of San Luis, Argentina. Check List 9(1): 73-75.


Palma A. 2013. Importancia de las regiones Mediterranea, Temp- lada y Patagonica en la diversidad de Ephemeroptera, Pleco-
tera y Trichoptera: implicancias de futuros cambios ambientales en sus distribuciones. Boletin de Biodiversidad de Chile 8: 37-47.


Prokin AA; Petrov PN; et al. 2013. Hydroentomology in Russia and adjacent countries: materials of the fifth All-Russia Symposium on Amphibiotic and Aquatic Insects / Papanin Institute for Biology of Inland Waters, Russian Academy of Sciences. Yarasal: Filigran. 254 pp.


Selva Kumar C; Sundar S; Sivaramakrishnan KG. 2012. Two new mayfly species (Baetidae) from India. Oriental Insects 46(2): 116-129.

Selva Kumar C; Nair RR; Sivaramakrishnan KG; Ganesh D; Janarthanan S; Annachalam M; Sivaranban T. 2012. Influence