



The Mayfly Newsletter

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The Mayfly Newsletter

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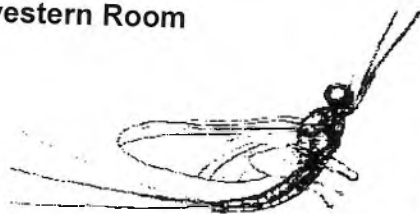
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THE MAYFLY NEWSLETTER

Vol. 17 No. 2

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

July 2013

2012 Joint International Conference - Wakayama Was Wonderful!

The 2012 International Joint Meeting (XIIIth International Conference on Ephemeroptera and XVIIth International Symposium on Plecoptera) was held 3-9 June in Wakayama, Japan, at the Hotel Landmark. The first official event was the welcoming reception held Sunday evening.

Monday

The official opening ceremony began on Monday, 4 June. Yasuhiro Takemon, conference chair, welcomed the participants. Yasuhiro pointed out the extra challenges that his committee experienced as a result of having to postpone the meeting for one year due to the earthquake and tsunami that struck Japan a year earlier. He pointed out that, despite earthquakes, tsunamis and typhoons, the organisms inhabiting Japan, especially its people, are very resilient.

He next thanked the sponsors of the conference and then introduced a representative of the Governor of Wakayama Prefecture, Yoshinobu Nisaka, who addressed the participants. He was followed by Mayor Kenichi Ohashi and Representative Makoto Shinyagaito. These speakers discussed the historical, cultural, economic and ecological significance of the region.

John Brittain, President of the Standing Committee of the International Society of Plecopterologists, addressed the audience. John provided a brief history of the stonefly conferences. He encouraged young scientists to participate in discussions at this meeting. He also encouraged everyone to participate in the conference auction which raises travel funds so these young scientists can attend the joint conferences. John read Ian McLelland's obituary and thanked our Japanese colleagues for postponing the conference due to the problems caused by the earthquake and tsunami.

Next, Michel Sartori, President of the Permanent Committee for the International Conferences on Ephemeroptera, addressed the audience. Michel read a letter from Elda Gaino, who was not

present, but will soon permanently retire. He read the obituaries for Sandor Andrikovics and Michael Hubbard. Mike was a member of the Permanent Committee and the driving force behind the very useful web site, Ephemeroptera Galactica.

The first keynote address was given by Mutsunori Tokeshi on the comparative biodiversity of Ephemeroptera and Plecoptera. Next, the conference photo was taken and then it was time for lunch.

The theme for the afternoon oral presentations was "Past-Present-Future." During the middle of the morning and afternoon

sessions, snacks and beverages were provided. There was an interesting display of local foods and crafts by the snack table. Participants could order some of these items to take home. Poster papers were also displayed in the break area. During this time the items for the silent auction were on display at the back of the meeting room. The organizers also provided a display of the destination for the midconference trip on Wednesday.

At the end of the day, a special demonstration of Japanese drums and martial arts was provided. Conference participants were invited to play the drums. Javier Alba-Tercedor noted this may be the first case of drumming for Ephemeropterists!

Special trips were organized during the conference for accompanying

persons to visit local museums, shrines, temples, castles, shopping areas, and craft stores.

Tuesday

Kazumi Tanida gave the keynote address this morning on "Historical Overviews of Aquatic Entomologists and Insects in Japan." The morning session papers focused on biodiversity, distribution and faunistics. That afternoon oral presentations continued on ecology, morphology and physiology.

In the evening, proposals were presented to host the 2015 joint international conference. Craig Macadam offered Aberdeen, Scotland, as a meeting location, and Frederico Salles offered, Aracruz,



Brazil. Plans for lodging, local entertainment, costs, collecting specimens, and proceedings were discussed. Members of the audience had the opportunity to ask questions and were encouraged to discuss these proposals. Members of the mayfly and stonefly committees will vote on the next conference location.

The mayfly committee held a business meeting after the proposal presentations (see p. 3).

Wednesday

The traditional mid-conference field trip left from the motel early morning. It was a gorgeous sunny day. During the trip we passed through several small towns where rice fields were common. The first stop was for collecting at the Nyu River. Next we arrived at the Dome Village, also on the Nyu River, for more collecting and lunch.

The main event that afternoon was a visit by 84 students from 5 local schools. They were treated to the opportunity to collect aquatic insects. Next, entomologists helped the students to sort the collected insects and choose one insect to keep. Taxonomists identified the insects to species and placed each insect in a vial with a label for the students to take home as a memento.

That evening a barbecue party was held at the Dome Village. All kinds of meat, fish and vegetables were prepared. After dinner, a representative from each of the 18 countries present at the meeting introduced themselves.

On the way back to the hotel, it was dark, so the busses stopped at several sites to observe the light display of the aquatic firefly, *Luciola cruciata*.

Videos of the day's activities may be viewed at <http://www.ustream.tv/recorded/23118173>. There are additional videos to select from on the right side of this web site.

Thursday

Oral presentations focused on ecology, life history and biology. A slide show was presented of the mid-conference trip.

Javier Alba-Tercedor gave an interesting presentation about microcomputer tomography analysis techniques applied to mayflies. He presented a video showing the capability of this technique. The video can be seen at youtube.com – just search for “Alba-Tercedor.”

The silent auction closed that evening and the mayfly and stonefly committees held a joint business meeting (see p. 7).

Friday

Oral presentations discussed systematics, taxonomy, and biogeography. Ballots for best poster and oral presentation were due at the end of the day.

Yasuhiro presented the concluding remarks on “Biodiversity Patterns and Processes Revisited from Asia.”

That evening dinner was held at GANKO, a lovely villa surrounded by a beautiful garden. Music and song introduced the dinner which was plentiful and delicious. (So was the sake!) Travel scholarship winners were announced, best poster and best oral presentations were awarded, as were a number of “unusual” awards.

Michel and John presented certificate of appreciation to the conference organizing committee and Michel announced that Takemon, since he was conference chair, has been appointed to the mayfly committee.

Recipients of the Mayfly Lifetime Achievement Awards were announced: Peter Malzacher and Pat McCafferty. (See laudations on p. 4). Yu Isobe, John Hanson and John Brittain were recipients of the Stonefly Lifetime Achievement Awards.

Scotland was announced as the site of the 2015 International Joint Meeting and Brazil as the site of the 2018 meeting.

Jan Peters explained that the idea of holding international conferences was the idea of Vladimir Landa. Special thanks were given for the many students who assisted with this meeting. Finally, Javier thanked (in Japanese) the local committee for their work on a successful conference.

Saturday

The post-conference trip began early morning. Our first stop was the Minakata Kumagusu Archives. Kumagusu Minakata was a naturalist who studied fungi, algae and slime molds. We had the opportunity to visit the museum, garden, and viewed his home, including his research lab.

Our next stop was Kumano-kodo, a UNESCO World Heritage Site, which is an ancient pilgrimage route. Some of the participants walked a portion of the pilgrimage route while others took advantage of the opportunity to dress up in Japanese costumes (see photo below). Our last stop was the Kumano Hongu Taisha Shrine, also recognized as a UNESCO World Heritage Site.

At the end of the day the conference came to a close. Over 60 scientists and 12 accompanying persons from 18 countries participated. We experienced wonderful hospitality, delicious foods, incredible culture, and beautiful landscapes. Takemon and his colleagues are to be congratulated for another successful joint international conference.



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Business Meeting

Permanent Committee of the International
Conferences on Ephemeroptera
5:00 PM, 5 June 2012, Wakayama, Japan

In attendance: Javier Alba-Tercedor, John Brittain, John Flanagan, Peter Grant, Michel Sartori Tomáš Soldán, and Arnold Staniczek. Jan Peters was also in attendance.

Ephemeroptera Galactica (EG). With the passing of Michael Hubbard, the committee's webmaster, the future of the committee's official web site was discussed. It has been a very useful tool and the committee was in favor of its continuance.

As Mike passed away unexpectedly, there are several issues to resolve (e.g., ownership, password), however Jan is working with Mike's widow, Kathy, to solve these problems. Once these issues are resolved, a new webmaster needs to be appointed and a permanent site for the website established. The new webmaster will be a member of the Permanent Committee. Currently EG is temporarily located on a web provider.

Two priorities for the web site were identified: continuing the mayfly bibliography with access to PDF versions of publications and providing a place for the Permanent Committee to share information. The latter will require an update of EG.

The motion was made to name the bibliography after Michael Hubbard and this was heartily endorsed.

Michel appointed a subcommittee composed of Arnold, Jan and Frederico Salles to facilitate these changes. Most importantly a new webmaster and the location of the web site [see p. 7 for new location] need to be determined. This subcommittee will offer their recommendations by the end of 2012.

Silent Auction. Michel suggested that announcements be made on Thursday, the last day for the silent auction, in the morning and afternoon, to encourage participation in the auction. The suggestion was also made to introduce scholarship recipients to the meeting participants to encourage more bidding. Donations to the travel funds will also be accepted. John F. can provide receipts for donations and he and Pete will collect the money (any currency) from successful bidders. [NOTE: Money was eventually collected by the conference organizers.] Proceeds will be divided equally between the mayfly and stonefly committees.

Contributions to the travel fund may be made at any time, not just during the international conference. Pete will put a note encouraging donations in each issue of *The Mayfly Newsletter*.

International Society. Discussion continued on the possibility of establishing an official international organization on mayflies similar to that for stoneflies. This society would operate using member dues and should have nonprofit status. The legal aspects for such a society will vary depending on the host country. Michel suggested setting up a working group to examine this opportunity in more detail. This group consists of Michel, John B. and Arnold.

Treasurer's Report. Donna Giberson, the committee's treasurer, is in charge of the travel scholarship account. The account currently has nonprofit status in Canada. However, future changes in Canada's tax laws will have an effect on the nonprofit status of this account. One requirement to maintain nonprofit status is to establish bylaws for the committee which must be done for 2013. Donna has a copy of the bylaws that were written when the

Permanent Committee was originally established. John F., Javier and Donna will form a subcommittee to make sure that we meet the new tax requirements for Canada and to work on revision of the bylaws for our organization.

Travel Scholarships. Six individuals applied for travel scholarships. Unfortunately there were only enough funds to award three scholarships, and only two recipients could attend the meeting. With more money we could offer more scholarships.

The committee expects conference organizers to assist scholarship recipients such as by not charging for registration, accommodation, or meals. This ought to be made clear to future conference convenors and perhaps ought to be in our bylaws, too.

2015 Conference Proposals. Two proposals to host the 2015 conference were submitted (Brazil and Scotland) and briefly discussed. Overall cost for the participants needs to be considered as well as the opportunity to host an international conference for that region of the world. Further discussion and a vote to choose the site of the next conference will take place when the mayfly and stonefly committees hold a joint meeting on Thursday.

Silent Auction/Travel Fund Update

The traditional silent auction was held at the International Conference in Japan to benefit the William L. Peters Travel Scholarship Fund. The total contributions were divided equally between the mayfly and stonefly travel funds. A total of C\$1284 (Canadian dollars) was raised for the mayfly fund!

This fund provides financial support to help students, who are studying mayflies, to attend the international conference. For example, the following were awarded travel funds to attend the meeting in Japan: Sonia Zrelli, Tunisia, C\$850; Erdenee Bolortsetseg, Mongolia, C\$850; and Ram Devi Tachamo Shah, Nepal, C\$450. Unfortunately Ram could not attend due to visa problems.

As you can see, the mayfly committee spent C\$1700 for travel scholarships but only obtained C\$1284 from the auction, a deficit of C\$416. The deficit would have been C\$866 if all three award recipients attended the conference.

The committee intends to continue holding silent auctions as a fund raiser during future conferences. However, one can see that these auctions, by themselves, cannot supply the needed travel funds. There are two alternatives to raise additional funds.

One is the purchase of the proceedings of past conferences. These have been sold for US\$40-\$50 and some proceedings are still available for purchase. For example, Donna Giberson, Treasurer of the Permanent Committee, has copies of the VIth conference (Spain, 1989) and the VIIth conference (Maine, 1992). Money used to purchase proceedings is deposited in the travel fund.

Another alternative is a cash donation to the travel fund. You might even consider making the travel fund a beneficiary of certain policies or investments.

Cash donations and inquiries regarding the travel fund may be sent to Donna at the Department of Biology, University of Prince Edward Island, 550 University Avenue, Charlottetown, Prince Edward Island, Canada, C1A 4P3, giberson@upei.ca. Donna can provide a receipt that includes the Canadian Government taxation number, which could make the donation tax deductible depending on your country's policy.

Lifetime Achievement Awards

At the Japan conference, the Permanent Committee for the International Conferences on Ephemeroptera identified two individuals to receive the Lifetime Achievement Award: Dr. W. Patrick McCafferty and Dr. Peter Malzacher.

While neither recipient could attend the conference, we can still celebrate their contributions to the study of mayflies. Michel Sartori presented the following summary of Pat's achievements and Arnold Staniczek did the same for Peter's achievements.

Dr. W. Patrick McCafferty

The first award is presented to a former student of George Edmunds, who has been active in mayfly biology since the late 1960's. He is the author of a wonderful book devoted to Aquatic Entomology and beautifully illustrated by his colleague Arwin Provonsha.

He has published a tremendous amount of papers, mainly on the taxonomy, systematics and phylogeny of mayflies, both fossil and extant. At the end of May 2012, a search on the Web of Science indicated 308 publications in scientific journals, roughly 10% of all publications on mayflies in the Web of Science, without taking into account book chapters and contributions in proceedings. He has the most cited paper in mayfly systematics with his "Revisionary Synopsis of the Baetidae of North and Middle America," co-authored with Bob Waltz.

Besides Bob, he was the mentor of several students, who made with him significant contributions to our understanding of mayfly biology, such as Dave McShaffrey, Yong Bae, Luke Jacobus and Jeff Webb for instance. He has authored or co-authored the description of 70 valid genera and more than 200 species of extant mayflies. My favourite one is the study with Christine Pereira he published in 1984 on the effects of developmental thermal regimes on two mayfly species and their taxonomic interpretation, in which they demonstrate the importance of water temperature on the phenotypic expression of the size and intensity of the colour or maculation.

He has made almost all his career as a professor of entomology at Purdue University, Indiana, and he recently retired and moved to New Mexico.

Those who know me are aware that I was and I am still not always in agreement with some of his contributions, but I have to say that our knowledge of mayfly biology would be far from our actual state without his work.

[Editor's Note: Pat was also inducted into the Dixie State College of Utah Hall of Fame in the area of Science and Technology at the college's homecoming on 27 October 2012. Pat graduated from Dixie College in 1965. For more information, go to <http://www.kcsg.com/> and search for "McCafferty."]



Dr. Peter Malzacher

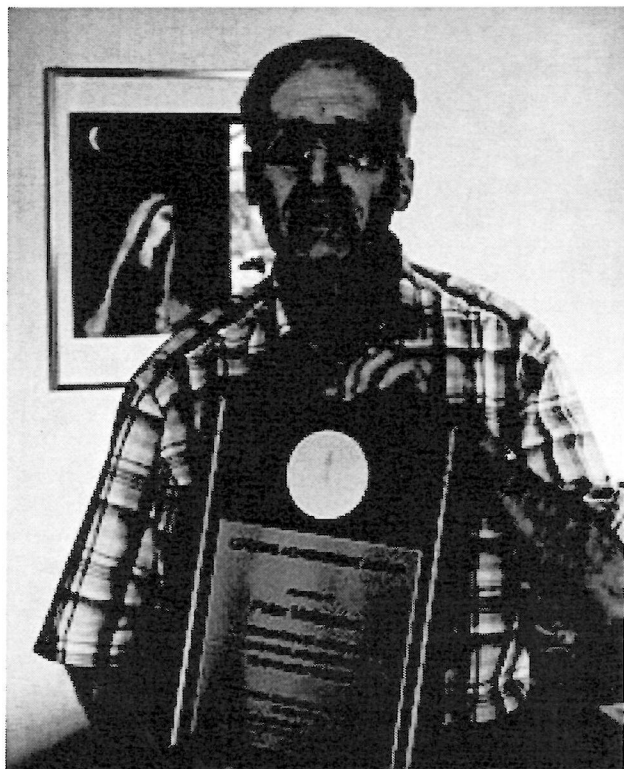
The Mayfly committee has decided to award Peter Malzacher with the Lifetime Achievement Award.

I met Peter Malzacher for the first time as a young student at the Joint Meeting in Lausanne in 1995. At that time, Peter was already a well known authority on Caenidae. Born on the 29th November 1938 in Stuttgart, Germany, he spent his entire life in Southern Germany. He studied biology at the University of Stuttgart and did his Ph.D. on the embryogenesis of the brains in paurometabolous insects. Soon after his Ph.D. he got into mayflies when the South German Water Works Authorities advertised a position to investigate the mayfly fauna of Lake Constance. This was the starting point for a lifelong devotion to mayflies. Peter quickly got acquainted with the local mayfly fauna and thus established the Red List of mayflies for the state of Baden-

Württemberg.

His first taxonomic paper on European Siphonuridae was already characteristic for his diligent and thorough work that is always accompanied by skillful and masterly drawings. Peter soon went for more and he asked Ingrid Müller-Liebenau, at that time the German authority on mayflies, for advice in which direction he should specialize. Ingrid pointed him to Caenidae, because, as she said, they are so small, even smaller than Baetids, so few people would be interested in them and she figured it would be worthwhile to work on their taxonomy.

This advice soon resulted in Peter's fundamental work on the taxonomy of European Caenidae. His taxonomic studies were accomplished in his spare time – to earn a living, Peter took a job as lab supervisor in a company that supplied histological sec-



Dr. Peter Malzacher

tions for teaching purposes to schools and universities all over the world. While his sections travelled the world, Peter almost never went abroad, also because his fragile health did not allow extended field trips into tropical countries. For that reason he also had to give up his job as a lab supervisor to continue as a freelancing consultant for ecological assessments.

But with the help of colleagues, especially Munich-based chironomist Friedrich Reiss, Peter was supplied with Caenids from South America. Later on Peter Gillies and Michel Sartori amongst others enabled his succeeding papers on African Caenidae by providing him with material to work on. Our Japanese colleagues probably all know that Peter even described a Japanese mayfly, *Caenis nishinoae*.

Peter is probably one of the most humble and decent colleagues I've ever met, and usually he is the one who is most skeptical of his own work. In his career, Peter has written more than 40 papers and described more than 60 species and 8 new genera (including the ones that are currently in print – because Peter of course continued to work on mayflies after his retirement).

Apart from mayflies, Peter has also strong interests in beetles and has also actively contributed to the faunistics of South German beetle fauna. But Peter is not only a biologist, he is also a *homme de lettres*. Peter is a great admirer of the German 19th century writer and poet Christian Morgenstern. Maybe Morgenstern holds the same place in German that Lewis Carroll does in English, his *Galgenlieder* (Gallows Songs) are quoted with the sort of delight the English take in Jabberwocky. Few of you might know that Peter adapted Morgenstern's poems to publish a book named *Der grüne Palmström* (Green Palmström) after one of Morgenstern's figures. Peter's own poems are a tribute to Morgenstern and Peter expressed his own concerns on the decline of our environment with subtle humor therein.

I found it impossible to translate Malzacher's poems into English, but I know that Peter would be delighted if he knew that I recite an English translation of Morgenstern's poem "Auf dem Fliegenplaneten" by Max Knight:

At the Housefly Planet

Upon the housefly planet
the fate of the human is grim:
for what he does here to the housefly,
the fly does there unto him.

To paper with honey cover
the humans there adhere,
while others are doomed to hover
near death in vapid beer.

However, one practice of humans
the flies will not undertake:
they will not bake us in muffins
nor swallow us by mistake.

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Unknown Addresses

I need current addresses or contact information for the following:

- S. L. Ball, Canterbury, New Zealand
- C. L. Conklin, Washington, USA
- A. Gallardo Mayenco, La Línea, Spain
- J. Gilman, Maine, USA
- M. Grienelsen, California, USA
- S. J. Lee, Seoul, Korea
- A. Richardson, Florida, USA
- Q. Xiaodong, Geumjeong-Gu, Korea
- J. Webb, Wodonga, Australia



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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.

The Mayflies of Europe

Bauernfeind, E. and T. Soldán. 2012. Apollo Books, Ollerup, Denmark. 781 pages. While this book was originally published by Apollo Books, it is currently distributed by Brill (<http://www.brill.com/mayflies-europe>), ISBN 13 9788788757453, €138.00.

From the publisher's web site:

"Among the various groups of aquatic insects mayflies (Ephemeroptera) are of especial interest for professional limnologists and entomological researchers as well as for naturalists in general and even the dedicated fly angler. Identification has traditionally been considered difficult and implementation in environmental monitoring and freshwater management has led to an ever increasing demand for exact information on taxonomy and ecology.

"The present handbook is designed to provide for the first time an up-to-date standard work for Ephemeroptera identification,

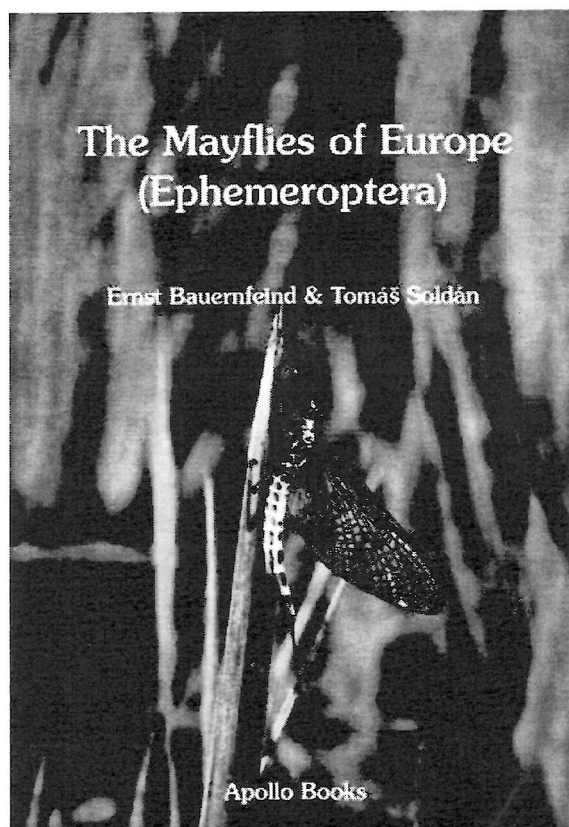
The geographical area covered is Europe including the European part of Russia, the mediterranean islands and North Africa. Short additional information is provided for adjacent parts of the western Palaearctic Region.

"A comprehensive index, check-list and distribution catalogue (following the widely adopted concept of Illies' *Limnofauna Europaeae*) allow for quick information on all species recorded so far from Europe."

According to the back cover of the book, "The aim of this handbook is to provide a tool that addresses some of the most urgent needs in European mayfly research: (1) basic information on identification, classification and past taxonomic acts, (2) a list of available names, both valid and invalid, of taxa occurring in the Western Palaearctic, in their verified original spelling and with the correct publication dates, and (3) a complete list of verified references to primary descriptions."

An introductory chapter covers the external morphology of imagines, subimagines, eggs, and larvae. Several pages are also devoted to internal morphology. Further information is provided on biology, biogeography, phylogeny and classification. A total of 369 species in 19 families are discussed and these are arranged in a checklist. Each species is given a unique code number which is utilized throughout the book and this makes for easy referencing.

Keys are provided to identify larvae and imagines to family and genus. A table identifying life cycle types and emergence/flight period for many of the species is provided at the end of the book. Also provided are indexes for scientific names and nomenclatural acts. Eighty-five pages of references complete the book. These references include electronic sources used and the proceedings of the international mayfly conferences.



including last instar larvae (nymphs), subimago (dun), male and female imagines. Recent changes in nomenclature are discussed in detail as well as gaps in current knowledge and probable pitfalls concerning the reliable identification of all taxa known so far from the region. Keys are provided for genera and introductory chapters characterize every family and genus.

"Species accounts follow a common format providing a synonymy, characters for identification (including literature references), remarks (on type material, variation, confusing or extralimital species) and short information on biology and distribution pattern. Male genitalia are illustrated by micrographs and line drawings, SEM photographs of the egg chorionic structure are provided for genera and selected species. Habitus of larvae and imagines are for most genera illustrated by colour photographs.

Mike Hubbard, 1946-2012 Ken Stewart, 1935-2012

Two aquatic entomologists that we know very well passed away in 2012.

Mike Hubbard passed away on 4 May 2012 after a brief illness. Mike was a member of the mayfly committee and founder of the Ephemeroptera Galactica (EG) web site which is well known for making publications on mayflies available in PDF format.

Ken Stewart passed away on 9 December 2012. Ken was a member of the stonefly committee. While known mostly for his work on Plecoptera, Ken did advise several students who worked on mayflies, including the editor of this newsletter.

The Society for Freshwater Science (SFS) had a nice memorial for deceased colleagues at its May 2013 meeting in Florida. Photos of these two colleagues, and others, were shown and fond memories were shared.

Full obituaries for Mike and Ken are published on the SFS web site (<http://www.freshwater-science.org/news.aspx>).

Joint Business Meeting

Permanent Committee of the International
Conferences on Ephemeroptera and the
Standing Committee of the International Society
of Plecopterologists

6:00 PM, 7 June 2012, Wakayama, Japan

In attendance: Javier Alba-Tercedor, John Brittain, John Flannagan, Peter Grant, Yu Isobe, Michel Sartori Arnold Staniczek and Manuel Tierno de Figueroa.

The main focus of this joint business meeting was to discuss the two proposals to host the next joint international conference in 2015. Proposals were submitted by Frederico Salles and Roldolfo Mariano for Aracruz, Brazil, and by Craig Macadam for Aberdeen, Scotland. Both proposals were informative as were the oral presentations of the proposals and the question-and-answer sessions on Tuesday afternoon during the Japan conference.

The two committees considered advantages and disadvantages of both locations, including overall cost, closeness to entertainment areas, transportation, publication of proceedings, safety, opportunity to keep collected specimens, and time since an international conference was last held in the regions.

A final vote was made to determine the site of the 2015 conference. Several members of both committees, who could not be present to vote, previously submitted their preference to their respective committee chairs. By a close vote the next conference will be held in Scotland. Both committees agreed that the Brazil proposal was very well done and also voted to hold the 2018 joint international conference in Brazil. The committees will not accept any future proposals to host the 2018 conference. However, preliminary proposals to host the 2021 conference may be submitted for consideration at the 2015 conference.

Michel and John B. will first inform Craig and Frederico of the committees' decision and then make the formal announcement at the Friday dinner.

Both committees agreed that conference convenors should do as much as they can to reduce the expenses for students who wish to attend the conferences. This could include waiving registration fees and providing free lodging and accommodations.

Mayfly Web News

Ephemeroptera Galactica has a new home with Arnold Staniczek as its Webmaster: <http://www.ephemeroptera-galactica.com>.

Javier Alba-Tercedor has posted very interesting videos of mayfly anatomy using a microtomograph. Go to youtube.com and search for "alba-tercedor" to find the videos.

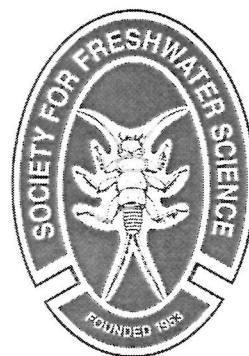
\$ Simuliidae Reference \$

OK, this isn't about mayflies but I recently purchased a copy of Adler et al. (2004) *The Black Flies (Simuliidae) of North America* for only US\$9.95! This 941 page tome originally sold for US\$132. As of 1 July, copies were still available at this price. Contact Hamilton Books at www.hamiltonbook.com for details.

Future Meetings



The next joint international conference will be held 31 May through 5 June 2015 in Aberdeen, Scotland. The conference organizers have already set up a web site: <http://www.riverflies.org/international-joint-conference-2015>. New information will be made available at this site and in future issues of this newsletter.



Next year, four aquatic scientific societies will hold a joint meeting: Association for the Sciences of Limnology & Oceanography, Phycological Society of America, Society for Freshwater Science (formerly North American Benthological Society), and Society of Wetland Scientists. The meeting will be held in Portland, Oregon, USA, 18-23 May 2014.

The theme for this meeting is "Bridging Genes to Ecosystems: Aquatic Science at a Time of Rapid Change." More information should be available soon at the meeting web site: www.sgmeet.com/JASM14.



The XXV International Congress of Entomology will be held 25-30 September 2016 in Orlando, Florida, USA. The theme of the meeting is "Entomology without Borders."

The conference web page is at <http://www.ice2016orlando.org/index.htm>. One can subscribe to updates at that web page, too.

2011 Ephemeroptera Bibliography

Compiled by Luke M. Jacobus, Division of Science, Indiana University Purdue University Columbus,
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INTRODUCTION

I put together the following list of publications as part of the Society for Freshwater Science's 2011 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.**

TAXONOMY & SYSTEMATICS

- Belmont, E. L. L.; Salles, F. F.; Hamada, N. 2011. Three new species of Leptohyphidae (Insecta: Ephemeroptera) from Central Amazon, Brazil. *Zootaxa* 3047: 43-53.
- Braasch, D. 2011. New species of the family Heptageniidae (Ephemeroptera) from Borneo and the Philippines. *Deutsche Entomologische Zeitschrift* 58: 201-219.
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Permanent Committee Members

We welcome Yasuhiro Takemon as a new member of the committee. Arnold Staniczek is now serving as webmaster.

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