

<p>ON THE XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA</p>
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The conveners, **Craig Macadam** and Dr. **Jenni Stockan** hosted an exceptionally enjoyable meeting at the James Hutton Institute in Aberdeen, Scotland from 1-6 June 2015. This meeting was attended by an international group of delegates, both esteemed veterans of our passion of study but also numerous students and enthusiasts (see map below). Our hosts ensured that besides intellectually stimulating scientific presentations and discussions, good old Scottish fun and traditions would be included all week. We enjoyed traditional Scottish dances by a local dancing school, mini Highland Games which included special conference versions of toss the caber, the welly toss, toss the turd, and toss the haggis. Team Plecoptera of course, won. We also had the special opportunity to savor fine Scottish whisky and food.

The first day of papers focused on phylogeny, taxonomy and systematics of Plecoptera and Ephemeroptera. The second day of presentations considered ecology and behavior. Day three included the mid conference tour to Cairngorms National Park, Balmoral Castle and [Glen Tanar](#) estate for some nice collecting and then ending the day with a sumptuous barbeque. Despite being in Scotland, we had nothing but sunshine during this pleasing excursion.

Day four included papers on the distribution, biogeography and ecological adaptation of our taxa. That evening we were greeted by a piper for the conference dinner held at Ardoe House Hotel. After a delightful dinner, awards were given and the rest of the evening the delegates enjoyed traditional Scottish folk music and dancing.

Presentations on Day five included aspects of biodiversity, conservation, and morphology. We were also given an overview of the next conference that will be held in Brazil in 2018. Additionally, the results of a contest ‘Guess the meaning of the Scottish word’ were noted.

The post conference tour included whisky tasting at Strathisla Distillery, followed by collecting at Craigellachie, lunch at the Lecht Ski Centre, before visiting Corgarff, Gairnshiel and finally travelling to Burn O Vat in the Muir of Dinnet.



Map courtesy of Craig Macadam

International Conference on Ephemeroptera and Plecoptera

Programme

Sunday 31 May

16.30 – 18.00 Wine reception, welcome and registration

Monday 1 June

08.45 – 09.15 Registration open

09.15 – 10.00 Opening ceremony

10.00 – 11.00 KEYNOTE: *Biodiversity in the Information Age*
Dr Ben Price, Natural History Museum, London

11.00 – 11.30 Coffee break

SESSION 1: Phylogeny, taxonomy and systematics (Plecoptera) (Chair: Boris Kondratieff)

11.30 – 11.50 *Diversity of Plecoptera (Perlidae) from southern Brazil (S*)*

Marcos Carneiro Novaes

11.50 – 12.10 *Towards the generic revision of Capniidae (Plecoptera): synopsis of the East Palearctic genera (S*)*

Dávid Murányi, Maribet Gamboa, Weihai Li, Kozo Watanabe

12:10 – 12:30 *Two new species of the family Chloroperlidae from China*
Chen Zhi-Teng, Du Yu-Zhou

12.30 – 13.45 Lunch and posters

SESSION 2: Phylogeny, taxonomy & systematics (Ephemeroptera I) (Chair: Arnold Staniczek)

13.45 – 14.05 *Larval redescription of Prosopistoma pennigerum (Müller, 1785) from the River Volga near Rzhev, Tver Region, Russia (Insecta: Ephemeroptera)*

Martin Schletterer, Ernst Bauernfeind, Wolfgang Lechthaler

14.05 – 14.25 *Revisiting the generic concepts of Afronurus and Electrogena (Ephemeroptera: Heptageniidae): morphology, genetics and distribution (S)*

Zohar Yanai, Michel Sartori, Roi Dor, Netta Dorchin

14.25 – 14.45 *Deciphering genital anatomy of rare, delicate and precious specimens: first study of two type specimens of mayflies using micro-computed X-ray tomography (Ephemeroptera; Heptageniidae)*

Michel Sartori, Martin Kubiak, Peter Michalik

14.45 – 15.05 *Systematics of the Ephemeroptera of India: present status and future prospects*
Kumbakonam G Sivaramakrishnan

15.05 – 15.35 Coffee break

SESSION 3: Phylogeny, taxonomy & systematics (Ephemeroptera II) (Chair: Peter Grant)

15.35 – 15.55 *Phylogenetic analyses of Cloeodes Traver, 1938 (Ephemeroptera: Baetidae) and related genera*

Frederico F. Salles, Jean-Luc Gattolliat, Michel Sartori

15.55 – 16.15 *Phylogeny for synchronized mass emergence mayfly Ephoron (Ephemeroptera: Polymitarcyidae)*

Kazuki Sekiné, Koji Tojo, Yeon Jae Bae

16.15 – 16.35 *Molecular phylogenetics of mayflies: status and future directions*
T. Heath Ogden

16.35 – 17.15 Welcome to Scotland social event

17.15 – 18.15 Plecoptera Committee Meeting

Tuesday 2 June

09.00 – 09.30 Registration open

09.30 – 10.30 KEYNOTE: *The changing ecology of Britain's rivers: places and perspectives*
Professor Steve Ormerod, Cardiff University

10.30 – 11.00 Coffee break

SESSION 4: Ecology of Ephemeroptera (Chair: John Brittain)

11.00 – 11.20 *Mayfly (Ephemeroptera, Insecta) community of a regulated Mediterranean river (S)*

Marina Vilenica, Ana Previšić, Marija Ivković, Aleksandar Popijač, Ivan Vučković, Mladen Kučinić, Jean-Luc Gattolliat, Michel Sartori, Zlatko Mihaljević

11.20 – 11.40 *Influence of food availability and predation risk on growth and maturation of *Cloeon dipterum* (Ephemeroptera: Baetidae) (S)*

Jan Šupina, Jindřiška Bojková, David S. Boukal

11.40 – 12.00 *Ephemeroptera and Chironomidae (Diptera): A review of parasitic and epioctic larval relationships*

Tomáš Soldán, Jindřiška Bojková

12.00 – 12.20 *Development of a habitat preference curve for the mayfly *Baetis alpinus* (Pictet 1843)*

Michael Hubmann, Martin Schletterer

12.20 – 13.40 Lunch and posters

SESSION 5: Ecology of Plecoptera & Ephemeroptera (Chair: Ed DeWalt)

13.40 – 14.00 *Distribution and diversity of Slovak stoneflies (Plecoptera) according to selected environmental factors*

Matej Žiak, Ilja Krno, Pavol Beracko

14.00 – 14.20 *The effect of in-stream woody debris on riverfly communities (S)*

Kerry Mackay

14.20 – 14.40 *Contribution to the taxonomy and biology of two Balkan endemic *Isoperla* Banks, 1906 (Plecoptera: Perlodidae) species (S)*

Dávid Murányi, Tibor Kovács, Kirill Márk Orci

14.40 – 15.00 *A simple, inexpensive artificial stream for rearing mayflies*

Peter Grant

15.00 – 15.30 Coffee break

SESSION 6: Behavioural ecology (Chair: J. Manuel Tierno de Figueroa)

15.30 – 15.50 *Mateguarding tactics can explain stonefly duetting patterns (S)*

Louis Boumans

15.50 – 16.10 *Emergence patterns of the mayflies (Insecta, Ephemeroptera) in the area of Plitvice Lakes NP, Croatia (S)*

Marina Vilenica, Marija Ivković, Zlatko Mihaljević, Michel Sartori

16.10 – 16.30 *Unsolved problems within the research of stoneflies*

Rainer Rupprecht

16.30 – 17.30 Ephemeroptera Committee Meeting

19.00 – 21.00 Riverside and historical walks social event (optional)

Wednesday 3 June

08.30 – 19.30 Mid-conference tour: Dee Valley and Royal Deeside

Thursday 4 June

09.00 – 09.30 Registration open

09.30 – 10.30 KEYNOTE: *More than just fish food – the contribution of mayflies and stoneflies to freshwater ecosystems*

Craig Macadam, Jenni Stockan

10.30 – 11.00 Coffee break

SESSION 7: Distribution & Biogeography (Chair: Stanley Szczytko)

11.00 – 11.20 *Do USA Upper Great Lakes National Parks Protect Stoneflies, Mayflies, and Caddisflies Better Than Surrounding Areas?*

R. Edward DeWalt, Eric J. South, Jason L. Robinson

11.20 – 11.40 *Paleo-drainage patterns and effects on the distribution of Teloganodidae (Ephemeroptera) – a South African example (S*)*

Lyndall Pereira-da-Conceicao

11.40 – 12.00 *Investigating disjunct distribution patterns in closely related mayflies between the Palaearctic and Southern Africa*

Helen M. Barber-James

12.00 – 12.20 *Mitochondrial reconstruction of Corsican mayflies (Ephemeroptera) with implications on biogeography, systematics and biodiversity*

Jean-Luc Gattolliat, Emilie Cavallo, Laurent Vuataz, Michel Sartori

12.20 – 14.00 Lunch, posters and golf lessons

SESSION 8: Adaptation and change (Chair: Alexa Trusiak)

14.00 – 14.20 *Mayflies and drought – how to survive in intermittent streams? (S)*

Marek Polášek, Petr Pařil, Světlana Zahrádková, Vít Syrovátka

14.20 – 14.40 *Mayflies (Ephemeroptera) and stoneflies (Plecoptera) in extreme and unusual environments*

John E. Brittain

14.40 – 15.00 *Gene expression changes governing thermal adaptation of stoneflies in Japan*

Maribet Gamboa, Yusuke Gotoh, Kozo Watanabe

15.00 – 15.30 Results of Silent Auction

15.30 – 16.30 Joint Plecoptera and Ephemeroptera Committee Meeting

18.00 – 23.30 Conference dinner and Ceilidh at Ardoe House Hotel

Friday 5 June

09.30 – 10.00 Registration open

10.00 – 11.00 KEYNOTE: *The IUCN Red List of Threatened Species: potential benefits of conducting a global assessment for Ephemeroptera and Plecoptera*

Dr Will Darwall, IUCN Global Species Programme

11.00 – 11.30 Coffee break

SESSION 9: Biodiversity & Conservation (Chair: Javier Alba-Tercedor)

11.30 – 11.50 *The UK Red List for mayflies and stoneflies*

Craig Macadam

11.50 – 12.50 Discussion on data sharing and red listing

12.50 – 14.00 Lunch and posters

SESSION 10: Morphology (Chair: Michel Sartori)

14.00 – 14.20 *The developmental origin of gills in mayflies*

Brigid C. O'Donnell, Christopher J. Gonzalez

14.20 – 14.40 *Anatomy of the eyes of mayflies using computer microtomography (micro-CT)*

Javier Alba-Tercedor

14.40 – 15.00 *A wolf among sheep: Larval head morphology of the carnivorous mayfly
Ameletopsis perscitus (Ephemeroptera: Ameletopsidae)*

Arnold H. Staniczek

15.00 – 15.45 Concluding remarks, closing ceremony and 2018 Conference update

15.45 – 17.00 Farewell reception

Saturday 6 June

08.30 – 18.00 Post-conference tour: Cairngorms National Park and Speyside

(S) = Student

(*) = Scholarship

The **International Society of Plecopterologists** awarded US\$4,272 in travel scholarships to the following persons for **XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA** :

Fernanda Avelino Capistrano da Silva, Brazil , **Marcos Carneiro Novaes**, Brazil; **Dávid Murányi**, Hungary; and **Louis Boumans**, Norway .

The following images were provided by Dr. Jenni Stockan, Dr. Arnold Staniczek, and others.



**Participants of XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND
THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA**



**Participants of XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA
AND THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA**



Craig Macadam, co-convener of XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA



Dr. Jenni Stockan co-convener of the XVIII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND THE XIV INTERNATIONAL CONFERENCE ON EPHEMEROPTERA (Photo from <http://www.hutton.ac.uk/staff/jenni-stockan>)



John E. Brittain and Marcos Carneiro Novaes.



Javier Alba-Tercedor and John Brittain in intense discussion about stonefly biology.



During the poster session, M. J. Lopez-Rodriguez, J. Manuel Tierno de Figueroa, Du Yu-Zhou, and Romolo Fochetti.



Martin Schletterer, Stanley Szczytko, Boris Kondratieff and R. Ed DeWalt checking their catch during the mid-conference field trip.



Despite not being a hardcore Plecopterist, Arnold Staniczek, the genius needs to be included reflecting on his next success!



Dr. J. Manuel Tierno de Figueroa no doubt discussing stonefly biology at the silent auction tables.



Traditional Scottish dances presented by a Aberdeen dancing school.



Craig Macadam looking Scottish!



From left to right, Stan Szczytko, Boris Kondratieff (Lifetime Achievement awardees), David Muranyi, Marcos Carneiro Novaes, Fernanda Avelino Capistrana da Silva (Plecoptera travel scholarships awardees); Fabiana Criste Massariol, Alexander Martynov, Lyndall Pereira-da-Conceicao, Pavel Sroka (Ephemeroptera travel scholarship awardees); Louis Boumans (Plecoptera travel scholarship awardee & best student presentation), Ian Campbell (Ephemeroptera Lifetime Achievement awardee), Rie Saito (best student poster), Thomas Soldan (Ephemeroptera Lifetime Achievement awardee).



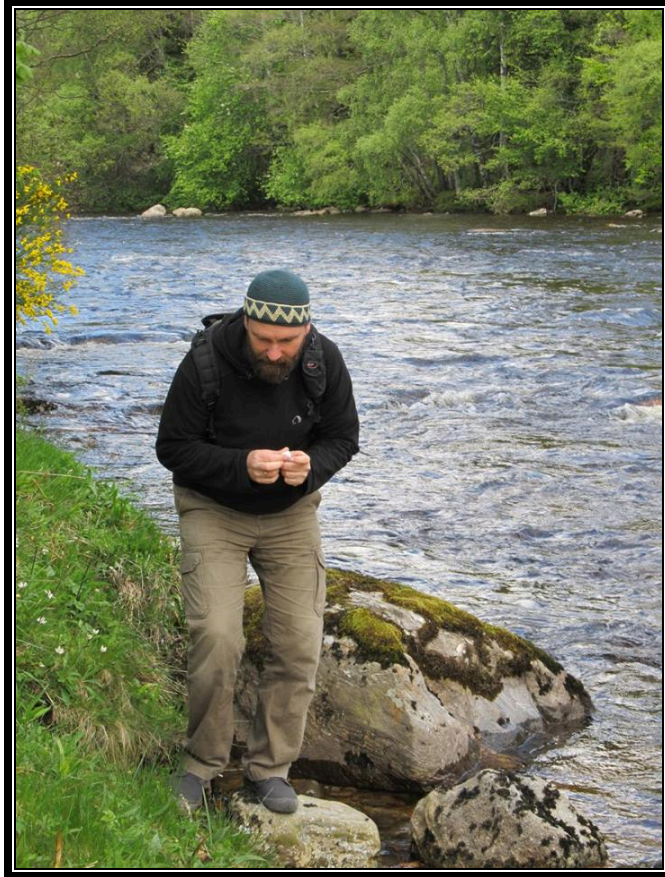
Poster Sessions with Matej Ziak, Jan Šupina, Javier Alba-Tercedor, and John Brittain.



Mini Highland Games which included special conference versions of toss the caber, the welly toss, toss the turd, and toss the haggis. Team Plecoptera, of course, won.



Jenni Stockan and Du Yu-Zhou.



Dr. Dávid Murányi what he likes doing the best, collecting stoneflies.



The convener of our next meeting in 2018 in Brazil, Dr. Frederico Salles with Dr. Martin Schletterer and Lyndall Pereira.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

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