

XV International Conference on  
**Ephemeroptera**



XIX International Symposium on  
**Plecoptera**

Brazil, Aracruz  
03-08/June/2018



**Participants of the XVth International Conference on Ephemeroptera and XIXth International Symposium on Plecoptera**

**Organizing committee**

**Dr. Frederico Falcão Salles**  
Universidade Federal do Espírito Santo

**Dr. Rodolfo Mariano**

Universidade Estadual de Santa Cruz

**Dra. Roberta Paresque**

Universidade Federal do Espírito Santo

## **The XVth International Conference on Ephemeroptera and XIXth International Symposium on Plecoptera**

We all enjoyed a pleasing meeting in Brazil that included 81 participants, five of whom were accompanying persons, from 20 different countries, worldwide. The site of the meeting was a huge conference hall, the Praia Formosa SESC Lodge. The Atlantic Ocean was just across the street and provided a nice opportunity for swimming or a walk in the sand enjoying crabs running about or photographing sweet insects. The insect diversity was however, rather low, since this was the beginning of the “winter” in Brazil.

The scientific program began on 4 June 2018 at 8:30am. **Dr. Frederico Salles**, the convener, announced that there would be four student presentation awards (oral and poster) including two for stonefly research. **Dr. John Brittain**, President of the Standing Committee of the International Society of Plecopterologists, welcomed the participants and thanked the organizers for hosting the meeting. Sadly, he noted that since the last conference in Japan, the passing of five of our distinguished colleagues, **Drs. Stanley Szczytko, Lydija Zhiltzova, Andrew Sheldon, Per Brinck, and David Lenat**. We surely miss them.

Between sessions, wonderful local treats of cookies, cakes, sandwiches, and juices were available along with coffee. All meals, breakfast, lunch, and dinner were served in the cafeteria, a short walk from the conference hall. Each meal consisted of local delicacies such as moqueca capixaba (tomato and fish stew), feijoada (black bean stew), and farofa (toasted cassava flour mixture).

The mid-conference field trip was on June 6 to the Hotel Fazenda Monte Verde Golf and Resort, 14 km from Parque Estadual Pedra Azul, a state park near Vargem Alta. The bus trip was a classic Latin American experience, marveling at the skill of the bus drivers, who expertly weaved in and out of heavy traffic sometimes missing pedestrians, bicyclists, motorcyclists, and cars by what seemed like just centimeters! At Pousada Peterle, a rest stop, the well-known Pedra Azul, a 1,909-m high peak, named after the blue tonality reflected on the rock at some moments of the day, could be seen. At Hotel Fazenda Monte Verde Golf and Resort a fantastic banquet was waiting for lunch. We all enjoyed ample amounts of beef, chicken, and sausage and wonderful desserts. A stream on the Resort was sampled and it was good to examine adults of a Gripopterygidae genus and nymphs of an *Anacroneuria* species. Of course, no collecting was allowed, officially. There was a hiking trail that passed through a remnant of the Atlantic Forest on the property of the resort.

The conference dinner was held in the cafeteria with a special selection of Brazilian traditional foods. Drs. **Michel Sartori** and **John Brittain** served as the masters of ceremony. The travel scholarships made available by the International Society of Plecopterologists were presented to

**Eric South, Evan Newman** (University of Illinois) and **Chris Verdone** (Colorado State University). The 2018 Lifetime Achievement Awards were presented to **Dr. Romolo Fochetti** (Italy), **Dr. Charles Nelson** (University of Tennessee at Chattanooga, USA), and the late **Dr. Rainer Rupprecht** (Germany). **Drs. Romolo Fochetti**, Università degli Studi della Tuscia in Viterbo, Italy and **Pablo Pessaq**, Universidad Nacional de la Patagonia & Conicet, Argentina were added to Standing Committee of the International Society of Plecopterologists. **Dr. Maribet Gamboa** received the award for the best oral presentation at the meeting and **Lucas Henrique de Almeida** for the best poster among the stonefly workers.

Certificates of appreciation were presented to the three conveners - **Frederico Falcão Salles, Rodolfo Mariano** and **Roberta Paresque** and to the many friendly and efficient volunteers who assisted during the meeting. The silent auction raised more than US\$ 1,000 US dollars (\$4,012 Brazilian Real) for future travel scholarships.

The postconference trip was on 9 June and 37 persons visited the Atlantic Forest of the Reserva Natural da Vale.

The traditional group photograph (<https://photos.app.goo.gl/DoP7GVzgoHPyEHdL6>) was taken including separate photographs of the participants that acknowledged an affection for the Plecoptera. Many beautiful photographs taken during the conference are available at <https://photos.app.goo.gl/fzjbcaXuuyEfYw1h8>. Additionally, **Dr. Peter Grant** has provided a detailed review of the meeting in the Summer 2018 *The Mayfly Newsletter* [Ephemeroptera Galactica: <http://www.ephemeroptera-galactica.com/>].

## **The program**

### **MONDAY, JUNE 04**

**08:00 / 08:30 – Registration**

**08:30 / 9:30 – Opening Ceremony**

**09:30 / 10:30 – Invited Lecture 1**

The fossil history of mayflies / **Dr. Arnold STANICZEK**

**10:30 / 11:00 – Coffee Break**

**11:00 / 12:00 – Oral Session 1 (Ecology & Biomonitoring)**

- **11:00/11:20** – The use of Ephemeroptera in assessing ecological changes in the rivers of the Kruger National Park, South Africa / **Helen M. BARBER-JAMES**
- **11:20/11:40** – Utility of Metrics as Diagnostic Tools in Ecological Risk Assessment / **Alexa A. TRUSIAK**
- **11:40/12:00** – Mayflies as bioindicators: the challenges of relating biodiversity loss to anthropogenic pressures / **Kele R. FIRMIANO**.

**12:00 / 14:00 – Lunch**

**14:00 / 15:00 – Oral Session 2 (Phylogeny, Systematics & Taxonomy)**

- **14:00/14:20** – Molecular phylogeny and DNA taxonomy of European *Rhithrogena* (Ephemeroptera, Heptageniidae): a synthesis and future prospects. / **Laurent VUATAZ**
- **14:20/14:40** – Problems and solutions revealed by integrative taxonomy of the *Rhithrogena hybrida* species group (Ephemeroptera, Heptageniidae) / **André WAGNER**
- **14:40/15:00** – Diversity, distribution and molecular phylogeny of *Epeorus* (*Caucasiron*) Kluge, 1997 (Ephemeroptera: Heptageniidae) in the Caucasus Mountains and adjacent areas / **Ľuboš HRIVNIAK**

**15:00 / 16:00 – Invited Lecture 2**

Progress of Chinese Plecoptera researches in the 21st century / **Zhi-Teng CHEN**

**16:00 / 17:00 – Coffee Break and Poster Session**

**17:00 / 18:00 – Oral Session 3 (Distribution & Faunistics)**

- **17:00/17:20** – Arabian Peninsula: a dry Paradise for Mayflies / **Jean-Luc GATTOLIAT**
- **17:20/17:40** – Historical Reconstruction of a Once Diverse Fauna: Stoneflies of the Midwest USA / **R. Edward DEWALT**

**17:40/18:00** – The current knowledge of plecopterofauna of the state of Espirito Santo / **Marcos C. NOVAES**

**TUESDAY, JUNE 05**

**08:30 / 9:30 – Invited Lecture 3**

Exploring the potential systematic, morphological and functional value of the bullae in Ephemeroptera. Leptophlebiidae as an example / **Dr. Eduardo DOMÍNGUEZ**

**09:30 / 10:30 – Oral session 4 (Ecology, Biomonitoring & Conservation)**

- **09:30/09:50** – Ecological and genetic considerations regarding *Prosopistoma pennigerum* (MÜLLER, 1785) from the Volga (Russia) and Vjosa (Albania) / **Martin SCHLETTERER**
- **09:50/10:10** – Functional effects of deforestation on stream ecosystems in Madagascar based on growth and production of mayflies (Ephemeroptera) / **Michel SARTORI**
- **10:10/10:30** – Stonefly (Plecoptera) communities of geomorphologic units / **Matej ŽIAK**

**10:30 / 11:00 – Coffee Break**

**11:00 / 12:00 – Oral session 5 (Distribution & Faunistics)**

- **11:00/11:20** – The Canterbury Museum mayfly collection, and what it can show in changes of species abundance and distribution (Ephemeroptera) / **Timothy R. HITCHINGS**
- **11:20/11:40** – Review of the taxonomic status and distribution of Pannota (Insecta: Ephemeroptera) in the Philippines / **Jhoana M. GARCES**
- **11:40/12:00** – More than 100 species of mayflies in one of the smallest Brazilian states: how did we get there? / **Frederico F. SALLES**

**12:00 / 14:00 – Lunch**

**14:00 / 15:00 – Oral session 6 (Biogeography & Phylogeography)**

- **14:00/14:20** – Phylogeography of Nemouridae family (Insecta, Plecoptera) in the Japanese Archipelago / **Maribet GAMBOA**
- **14:20/14:40** – The reproductive experiment of the Japanese endemic mayfly family Dipteromimidae showing large genetic differentiation: Elucidation of their speciation mechanisms / **Masaki TAKENAKA**
- **14:40/15:00** – Phylogeography of *Simothraulopsis diamantinensis* Mariano, 2010 (Ephemeroptera: Leptophlebiidae) reveals signatures of isolation across east Brazil / **Taís B. ALMEIDA**

**15:00 / 16:00 – Invited Lecture 4**

Phylogeny of Leptohyphidae (Ephemeroptera: Ephemerelloidea): combined analysis of morphological and molecular data / **Paula SOUTO**

**16:00 / 17:00 – Coffee Break and Poster Session**

**17:00 / 17:30 – Next conference proposals**

**18:00 – Mayfly committee meeting**

**19:00 – Stonefly committee meeting**

**WEDNESDAY, JUNE 06**

08:00 / 19:00 – Trip to Monte Verde Golf & Resort (Vargem Alta)

**THURSDAY, JUNE 07**

**08:30 / 9:30 – Invited Lecture 5**

South American Plecoptera: current knowledge and perspectives / **Dr. Pablo PESSAQ**

**09:30 / 10:30 – Oral session 7 (Biology & Reproduction)**

- **09:30/09:50** – Reproduction and sex ratios in natural populations of the mayfly *Alainites muticus* Linnaeus, 1758 (Ephemeroptera: Baetidae) / **Maud LIÉGEOIS**
- **09:50/10:10** – Unique reproductive strategy on a worldwide distributed mayfly, *Cloeon dipterum* (Ephemeroptera: Baetidae): Proposal for a new type of insect viviparity / **Koki YANO**
- **10:10/10:30** – Life cycle of stoneflies and the change in the ratio of stable isotope / **Mayumi YOSHIMURA**

**10:30 / 11:00 – Coffee Break**

**11:00 / 12:00 – Oral session 8 (Ecology, Biomonitoring & Conservation)**

- **11:00/11:20** – Diversity of Plecoptera in the state of Indiana, USA: using museum data to track changes in species assemblages over time and space / **Evan A. NEWMAN**
- **11:20/11:40** – Environmental factors shaping mayfly community structure (Ephemeroptera) in a hierarchical lotic system / **Zohar YANAI**
- **11:40/12:00** – The Mid-network Mayfly Maxima (MMM): A General Pattern of Mayfly (Ephemeroptera) Species Richness Within Drainage Networks And What We Can Learn From It / **Steven K. BURIAN**

**12:00 / 14:00 – Lunch**

**14:00 / 15:00 – Oral session 9 (Biogeography, Biology & Faunistics)**

- **14:00/14:20** – Direct analysis of vicariance in neotropical mayflies (Ephemeroptera) / **Carlos MOLINERI**
- **14:20/14:40** – Composition and Seasonality of Plecoptera from Reserva Biológica Augusto Ruschi, ES, Brazil / **Maisa C. GONÇALVES**
- **14:40/15:00** – Status of southern African Leptophlebiidae (Ephemeroptera) systematics and current research developments / **Ina S. FERREIRA**

**15:00 / 16:00 – Invited Lecture 6**

You don't belong here: explaining the excess of rare immature stream insects in terms of habitat, space and time / **Dr. Adriano MELO**

**16:00 / 17:00 – Coffee Break and Poster Session**

**17:00 / 18:00 – Oral session 10 (Ecology, Biomonitoring & Conservation)**

**17:00/17:20** – Current challenges faced by endemic Malagasy mayflies (*Cheirogenesia*, Demoulin 1952, *Probosciodoplocia*, Demoulin 1966, *Madecassorythus*, Elouard & Oliarinony, 1997 and *Spinirythus*, Oliarinony & Elouard, 1998) toward climate change, damaged habitat, and pollution: illustrated cases of selected taxa / **Ranalison OLIARINONY**

**17:20/17:40** – Colonisation of the restored stream by benthic invertebrates: a case study from the Bohemian Forest (Czech Republic) / **Jindřiška BOJKOVÁ**

**17:40/18:00** – Predicting potentially suitable habitat of *Remenus* Ricker (Plecoptera: Perlodidae) in the southern Appalachians / **Chris J. VERDONE**

**18:30** – Joint committee meeting

**FRIDAY, JUNE 08**

**08:30 / 9:30** – silent auction closing

**09:30 / 10:30** – Oral session 11 (Phylogeny, Systematics & Taxonomy)

- **09:30/09:50** – Anchored phylogenomics of Burrowing Mayflies (Ephemeroptera) and the evolution of tusks / **Dustin B. MILLER**
- **09:50/10:10** – From genetics to morphology: the diversity of *Labiobaetis* Novikova & Kluge (1987) (Ephemeroptera: Baetidae) in New Guinea and South-East Asia / **Thomas KALTENBACH**
- **10:10/10:30** – Phylogeny of Neotropical Leptophlebiidae (Ephemeroptera) based on molecular data / **Marina MONJRADIM**

**10:30 / 11:00** – Coffee Break

**11:00 / 12:00** – Invited Lecture 7

Phylogenomics and Evolution of Mayflies / **Dr. Heath OGDEN**

**12:00 / 14:00** – Lunch

**14:00 / 15:00** – Oral session 12 (Faunistics & Taxonomy)

- **14:00/14:20** – A brief history of South American research on Ephemeroptera / **Janice PETERS**
- **14:20/14:40**– Mayfly research in Iran: species diversity and knowledge gaps / **Tomáš SOLDÁN**
- **14:40/15:00** – A New Type of Behningiidae from Southwestern China
- (Insecta: Ephemeroptera) (INSECTA: EPHEMEROPTERA) / **Chang-Fa ZHOU**

**15:00 / 16:00 – Invited Lecture 8**

The Nearctic species of the genus *Kogotus* Ricker (Plecoptera: Perlodidae) / **Dr. Boris KONDRATIEFF**

**16:00 / 17:00 – Coffee Break and Poster Session**

**17:00 / 18:00 – closing of ballots for presentation prizes**

**19:00 – Conference dinner (scholarship holders, Lifetime Achievement Awards, prizes)**







**The meeting site of the conference, the Praia Formosa SESC Lodge.**



**Dr. Frederico Falcão Salles and Dr. Eduardo Domínguez.**



**One of the meeting sessions.**



**Session break in the spacious hallway of the Praia Formosa SESC Lodge.**



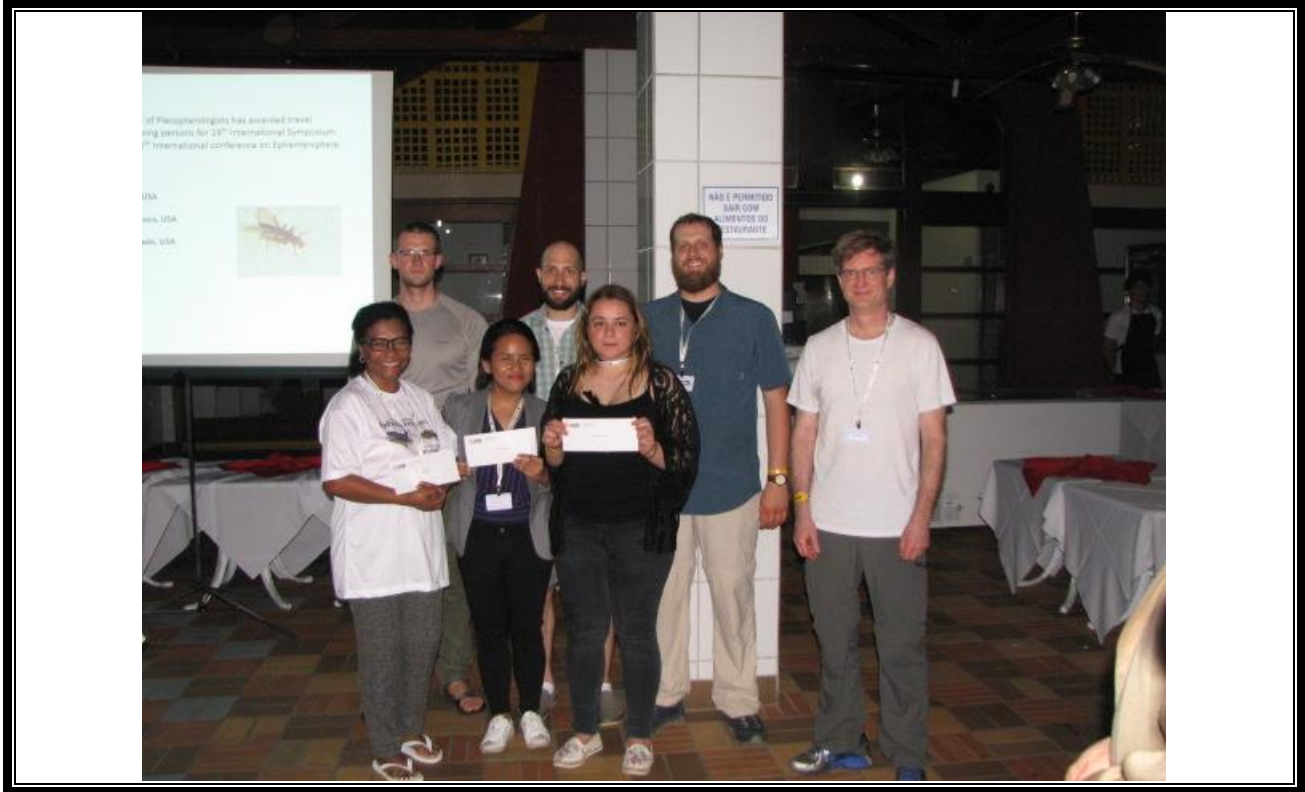
**Checking the items available for the Silent Auction.**



**Drs. R. Edward DeWalt and Zhi-Teng Chen.**



**Dr. Maribet Gamboa, the awardee for the best oral presentation on Plecoptera.**



**Travel scholarship awardees including Eric South, Evan Newman (University of Illinois) and Chris Verdone (Colorado State University) for Plecoptera.**



**The mid-conference field trip was to the Monte Verde Golf and Resort. Dr. Arnold Staniczek scrutinizing mayfly taxa.**



**The view of the Atlantic Ocean from one of the dormitories.**

The International Committee continued the practice begun at the XI Symposium in Treehaven, Wisconsin, USA in 1992, of presenting Lifetime Achievement Awards to Plecopterologists who have made exemplary contributions to our field over their professional lifetimes. Previous awards have been made to the late **Noel Hynes** and **Bill Ricker** (announced in Perla No. 11); the late **Jacques Aubert**, **Teizi Kawai**, and the late **Ian McLellan** (announced in Perla No. 14); **Claudio Froehlich**, the late **Lidija Zhiltzova**, and **Peter Zwick** (announced in Perla No. 17); the late **Kenneth Stewart**, **Elisabetta Dematteis Ravizza**, and **Carlaberto Ravizza** (announced in Perla No. 20); and **Richard W. Baumann**, and **Bill P. Stark** (announced in Perla No. 23). Adding to this distinguished list of scientists, the International Committee awarded Lifetime Achievement Awards in 2008 to **Peter Harper** and **Ignac Sivec** (announced in Perla No. 27) and in 2012 recipients of the Award included **John Brittain**, **Yu Isobe**, and the late **John Hanson** (announced in Perla No. 31). Most recently the late **Stanley W. Szczytko** (see Perla No. 36, 2018 for his obituary) and **Boris Kondratieff** were honored with the award (Perla No. 34). At the XIX International Symposium on Plecoptera, Lifetime Achievement Awards were announced, honoring **Drs. Romolo Fochetti**, **Charles H. Nelson** and the late **Rainer Rupprecht**.

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