

**ON THE XVII INTERNATIONAL SYMPOSIUM ON PLECOPTERA AND THE
XIII INTERNATIONAL CONFERENCE ON EPHEMEROPTERA**

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After a postponement of this meeting for one year owing to the devastating effects of the tsunami, an air of anticipation and enthusiasm characterized the XVII International Symposium on Plecoptera and the XIII International Conference on Ephemeroptera, held June 3 – 9 in Wakayama, Honshu, Japan. Dominated by the beautiful Wakayama Castle on Mt. Torafusu, the conference site meeting was located in the Big-Ai Convention center and excellent accommodations were provided by the Hotel Landmark located within the center. Sixty-four registrants from twenty countries attended two keynote addresses, seven oral presentation sessions and two poster presentations sessions. These sessions covered a diverse variety of subjects that included paleontology, biodiversity, distribution, ecology, life history, morphology, molecular data, phylogeny, taxonomy, and physiology.

Among the many highlights of the conference was a special event that included an exhibition of the ‘Wadiko’ Japanese Drum used in ceremonies in shrines and temples and an exciting demonstration of ‘karate’ martial art that originated in the Ryukyo (Okinawa) Islands in the 19th Century.

The mid-conference field trip to the Nye River and Dome Village was an opportunity for participants to collect as well as enjoy assisting school children in the field with collecting and conducting taxonomic identifications. A sumptuous barbeque at the Dome Village campsite was followed by a delightful evening viewing the luminescent flights of the Japanese aquatic firefly.

The Japanese restaurant, GANKO, was the site for a superb conference dinner with many courses that included a wide variety of sushi. Surrounded by lovely gardens, this former villa of a wealthy businessman was a delightful setting for this important occasion.

For those who could not get enough of the beautiful Japanese countryside our hosts conducted a post-conference trip to the home of the naturalist, Kumagusu Minakata, that also included some hiking along the UNESCO World Heritage Site ‘Kumano-Kodo’ pilgrimage route and a visit to the Kumano Hongu Taisha Shrine.

The conference participants certainly express our appreciation to the Organizing Committee for their commendable efforts that went into making the conference a great success: Yasuhiro Takemon, Kyoto University (chairperson); Mayumi Yoshimura, Forestry and Forest Products Research Institute (secretary-general); Koji Tojo, Shinshu University (vice-chairperson); Yu Isobe, Nara Bunka Women’s College (gifts), Akikazu

Taira, Osaka Prefecture University (accompanying person program, post conference trip); Soichiro Mukaiyama, Toyonaka City (event); Shigekazu Uchida, Aichi University of Industrial Technology (sponsors); Kazuhisa Inada, Himeji High School (logo) and Toru Kishimoto, Toshihito Fujitani, Takao Shimizu.

PROGRAM

Meeting Schedule

Sunday, June 3

18:00-21:00 Registration of participants at the Hotel Landmark

Social Event

19:00-20:00 Welcome refreshments and drinks at the Hotel Landmark

Monday, June 4

9:00-10:00 Registration

Opening Ceremony

10:00-10:15 Opening and welcome address by Yasuhiro Takemon
(Conference Chairperson)

10:15-10:25 Welcome address from the Governor of Wakayama Prefecture

10:25-10:35 Welcome address from the Mayor of Wakawama City

10:35-10:55 Opening and welcome address from Michel Sartori and John
Brittain (International Committee Chairs)

Keynote Address I

11:00 -12:00 Tokeshi, M
**Comparative biodiversity of Ephemeroptera and Plecoptera from
Asian to global perspectives**

12:00-12:15 Conference picture

12:14-14:10 Noon recess

Oral Presentation I: Past-Present-Future (Chair: J. Brittain)

14:10-14:30 Alba-Tercedor, J., J. M. Poquet, R. Rodríguez-López
**Predicting the effect of global warming on mayfly and stonefly
families in the Iberian Mediterranean area of Spain**

14:30-14:50 Bojková, J., T. Soldán, S. Zahrádková
**Plecoptera taxocenoses and degradation of watercourses in the
Czech Republic: changes after 50 years**

- 14:50-15:40 Coffee break
- 15:40-16:00 Godunko, R. J., A. H. Staniczek
Revision of fossil Metretopodidae (Insecta: Ephemeroptera) in Baltic amber
- 16:00-16:20 Tojo, K.
Evolutionary origin of the insect wing: Approach from Ephemeropteran embryology

Special Event

- 17:30-19:00 Presentation of 'Wadaiko' Japanese Drum
 Presentation of 'Karate' martial art

Tuesday, June 5

Keynote Address II

- 9:30-10:30 Tanida, K
Historical overviews of aquatic entomologists and insects in Japan
- 10:30-11:00 Coffee break

Oral Presentation II: Biodiversity, Distribution, Faunistics (Chair: T. Soldan)

- 11:00-11:20 Sartori, M., J. L. Gattolliat, M. T. Monaghan
Origin, diversification and the future of Macaronesian mayflies (Ephemeroptera)
- 11:20-11:40 Bolortsetseg, E., B. Badamdorj
The Mayfly (Ephemeroptera) studies of streams, rivers, and lakes of Mongol Altai Mountain
- 11:40-12:00 Nelson, C.
Log-series statistical distribution in Plecoptera classification
- 12:00-14:00 Noon recess

Oral Presentation III: Ecology, Morphology, Physiology (Chair: P. Zwick)

- 14:00-14:20 Sekine, K., K. Tojo
The origin and expansion of unisexual populations in the geographically parthenogenetic mayfly *Ephoron shigae* (Polymitarcyidae)
- 14:20-14:40 Barber-James, H. M., F. C. de Moor
A scanning Electron Microscopy study of mating adaptations in the Prosopistomatidae (Ephemeroptera)

- 14:40-15:00 Sato, H., Y. Degawa
Not gills, but fungi: Harpellales, a fungal order inhabiting the gut of aquatic insects
- 15:00-15:30 Coffee break
- 15:30-15:50 Conference site proposals

Poster Session I: Phylogeny, Systematics, Taxonomy

- 15:50-17:30
- Zrelli, S., M. Boumaiza, M. Bejaoui, J. L., Gattolliat, M. Sartori
New data and revision of the Ephemeroptera of Tunisia
- Lecci, L. S., C. G. Froehlich, P. C. Bispo
Phylogenetic analysis of the genus *Gripoteryx* (Pictet 1841) (Plecoptera: Gripopterygidae), based on morphology
- Ishiwata, S.
Revision of the genus *Drunella* (Insecta: Ephemeroptera: Ephemerellidae) from Japan
- Yoshinari, G., M. Nakamura, S. Uchida
A new species of *Togoperla* (Perlidae) from Japan
- Salles, F. F., Y. Shimano, E. D. G. Soares, L. R. R. Faria
Revision of *Oligoneuria* Pictet (Ephemeroptera: Oligoneuridae)
- Zhou, C. F.
The nymph of *Gilliesia pulchra* Zhou (Ephemeroptera: Leptophlebiidae)
- Gattolliat, J. L., L. Vuataz, M. Sartori
Mayfly fauna of Jordan: relevance of a barcoding gene for the association of ontogenetic stages
- Boumans, L.
DNA barcoding of Norwegian stoneflies and of heptageniid mayflies
- Vuataz, L., M. Sartori, A. Wagner, M. T. Monaghan
Toward a revised taxonomy of Alpine *Rhithrogena* (Ephemeroptera: Heptageniidae): the utility of a barcode gene
- Kato, Y., K. Tojo
Molecular phylogenetics of East Asian *Yoraperla* stoneflies (Plecoptera, Peltoperlidae)
- Kato Y., K. Tojo
Molecular phylogenetic relationships of East Asian *Cryptoperla* stoneflies (Plecoptera, Peltoperlidae)

Takenaka, M., K. Tojo
**Genetic structures of dipteromimid mayflies endemic to Japan
(Ephemeroptera, Dipteromimidaeae)**

Saito, R., K. Tojo
**Genetic structures of the isonychiid mayfly *Isonychia japonica*
(Ephemeroptera, Isonychiidae)**

Morii, Y., M. Yoshii, T. Kishimoto, K. Tojo
**Molecular biogeography of the scopurid stoneflies (Plecoptera,
Scopuridae)**

Maracci, S., N. Vuilleumier, M. Sartori
Aqualogue: an original scheme to record aquatic insect biodiversity

Kobayashi, S., Y. Takemon
**Longitudinal patterns in taxonomic richness of Ephemeroptera and
Plecoptera in a Japanese River**

Wednesday, June 6

Mid-Conference Trip to the Nye River and Dome Village

Thursday, June 7

Oral Presentation IV: Ecology, Life History, Biology (Chair: Y. Takemon)

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| 9:30-9:50 | Pereira-da-Conceicao, L. L., H. M. Barber-James
A preliminary investigation of the diversity of Teloganodidae
(Ephemeroptera) in South African rivers |
| 9:50-10:10 | López-Rodríguez, M. J., J. M. Tierno de Figueroa
Life in the dark: on the biology of the cavernicolous stonefly
<i>Protonemura gevi</i> (Insecta: Plecoptera) |
| 10:10-10:30 | Hitchings, T.
Life in turbulent water for <i>Deleatidium</i> (Ephemeroptera:
Leptophlebiidae) from New Zealand |
| 10:30-10:50 | Boumans, L.
Incipient speciation: a distinct local population of <i>Leuctra
hippopus</i> (Plecoptera) in Norway |
| 10:50-11:20 | Coffee break |
| 11:20-11:40 | Morii, Y., M. Yoshii, T. Kishimoto, K. Tojo
Differences of eclosion pattern between two closely related
scopurid stoneflies (Plecoptera, Scopuridae) |

- 11:40-12:00 Ban, Y., T. Mita, M. Ishikawa
Inspection of patchy emergence of mass-emerging mayfly, *Ephoron shigae* Takahashi (Ephemeroptera, Polymitarcyidae) from larvae side
- 12:00-12:20 Saltveit, S.J., J.E. Brittain
Life cycle strategies in contrasting populations of the stonefly, *Amphinemura standfussi* (Plecoptera, Nemouridae)
- 12:20-14:00 Noon recess

Oral Presentation V: Ecology (Chair: M. Sartori)

- 14:00-14:20 Avlyush, S., M. Schaeffer, D. Borchardt
Life cycles and secondary production of mayflies (Ephemeroptera) in the Kharaa River, Mongolia
- 14:20-14:40 Manko, P.
Microdistribution patterns of stonefly nymphs in small flysch river (Eastern Carpathians, Slovakia)
- 14:40-15:00 Ozolins, D.
Microhabitat preference of different mayfly larvae instars in medium sized lowland stream in Latvia
- 15:00-15:30 Coffee break

General Shows

- 15:30-15:45 Yoshimura, M.
 Slide show of Mid-Conference trip
- 15:45-16:15 Alba-Tercedor, J. (use anaglyph glasses)
Micro-computer tomography analysis techniques applied to mayflies, with a detailed study of the anatomy of the nymph of *Prosoptistoma pennigerum* (Müller, 1785)

Poster session II: Morphology, Ecology, Life History, Physiology, Technical Information

- 16:15-18:00
- Bolortsetseg, E., J. Morse, B. Badamdorj
A gynander subimago *Baetis* sp. (Ephemeroptera, Baetidae) from Mongolia
- Sekine, K., K. Tojo
The origin and expansion of unisexual populations in the geographically parthogenetic mayfly *Ephoron shigae* (Polymitarcyidae)
- Helland, N. K. S., J. E. Brittain
Distribution of Plecoptera, Ephemeroptera and Trichoptera in

a Norwegian mountain stream system in relation to environmental variables

López-Rodríguez, M. J., C. E. Trenzado, J. M. Tierno de Figueroa, A. Sanz

Digestive enzyme activity and trophic behavior in two predator aquatic insects (Plecoptera, Perlidae). A comparative study

Tierno de Figueroa, J. M., M. J. López-Rodríguez, T. Bo, S. Fenoglio
Life cycle and nymphal feeding of three high mountain Alpine macroinvertebrate species (Plecoptera and Ephemeroptera)

Koščo, J., P. Manko

The diet composition of *Perla marginata* larvae (Plecoptera: Perlidae) in a Eastern Carpathian flysch river

Wagner, A., M. Sartori

Ontogeny of tarsal claws in selected mayfly species (Ephemeroptera)

Ogany, Y.

Comparitive morphology of the epiproct in Japanese *Stavsolus* (Plecoptera: Perlodidae)

Loskutova, O., L. Zhiltzova

Wing and body size polymorphism in population *Arcynopteryx compacta* McL. (Plecoptera: Perlodidae) in the Ural Mountains (Russia)

Takemon, Y.

Diversity of the reproductive behavior in mayflies

Luzón-Ortega, J. M., M. J. López-Rodríguez, J. M. Tierno de Figueroa
Description of the drumming signal of *Eoperla ochracea* (Kolbe, 1885) (Plecoptera: Perlidae)

Morii, Y., M. Yoshii, T. Kishimoto, K. Tojo

The parapatric distribution pattern derived from reproductive interference between two closely related scopurid stoneflies (Plecoptera, Scopuridae)

Grant, P., M. Walters, C. Wright

The life cycle and substrate preference of *Cercobrachys etowah* Soldan (Ephemeroptera: Caenidae) inhabiting a sandy bottom stream

Yoshimura, M.

Preference of tree types in adult *Kamimuria tibialis* (Plecoptera, Perlidae)

Kitchen, L., B. Peacock, C. Macadam

The Anglers' Monitoring Initiative – public engagement and river quality monitoring

Lu, C. T., H. M. Lee, C. M. Linn, D. J. Wei, C. F. Tang
A study of *Forciomyia taiwana* (biting midge) repellent

J. Alba-Tercedor
Studying the anatomy of wet specimens of mayflies of the genus *Baetis* (Insecta: Ephemeroptera) by scanning them into a liquid with the Skyscan 1172 high resolution micro-CT

Auction

18:00 Closing of silent auction

Friday, June 8

Oral Presentation VI: Systematics, Taxonomy, Biogeography (Chair: A. Staniczek)

- 9:30-9:50 Salles, F. F., E. Soares, R. Hott
Current knowledge of Brazilian Baetidae (Ephemeroptera)
- 9:50-10:10 Gattolliat, H.
Biogeography of the Baetidae in South-East Asia: a generic and specific perspective
- 10:10-10:30 Naranjo López, C., J. G. Peters
Mayflies (Ephemeroptera) of the Greater Antilles, with new records for Jamaica and the Dominican Republic
- 10:30-10:50 Soldán, T., R. J. Godunko, P. Sroka, J. Bojková
Mayfly (Ephemeroptera) species inventory of the Caucasus Mountains
- 10:50-11:20 Coffee break
- 11:20-11:40 Vuataz, L., M. Sartori, M. T. Monaghan
Endemism and diversification in freshwater insects of Madagascar revealed by coalescent and phylogenetic analysis of museum and field collections
- 11:40-12:00 Wakimura, K., Y. Takemon, A. Takayangi, K. Tanida, S. Ishiwata, N. Shimizu, M. Kato
Construction of a DNA database for Japanese mayflies for quick species identification

Poster Prize

12:00 Closing of ballots for poster prize

12:00-13:40 Noon recess

Oral Presentation VII: Systematics, Taxonomy, Biogeography (Chair: C. Nelson)

- 13:40-14:00 Zhou, C.F.
**The nymph of *Gilliesia pulchra* Zhou (Ephemeroptera:
Leptophlebiidae)**
- 14:00-14:20 Surenkhorloo, P.
**Contribution to the East Palearctic and Nearctic species of
Mesocapnia Raušer, 1968 (Plecoptera: Capniidae)**
- 14:20-14:40 Macadam, C., L. Kitchen, M. Dobson
**Ephemeroptera in the UK: a national approach to monitoring and
conservation management**
- 14:50-15:10 Coffee break

Concluding Remarks

- 15:10-16:10 Takemon, Y.
Biodiversity patterns and processes revisited from Asia

Social Event

- 18:00-21:00 Conference Dinner at GANKO Japanese Restaurant

Saturday, June 9

Post-Conference Trip to Southern Wakayama

Otherwise than noted, photographs courtesy of Charles Nelson.



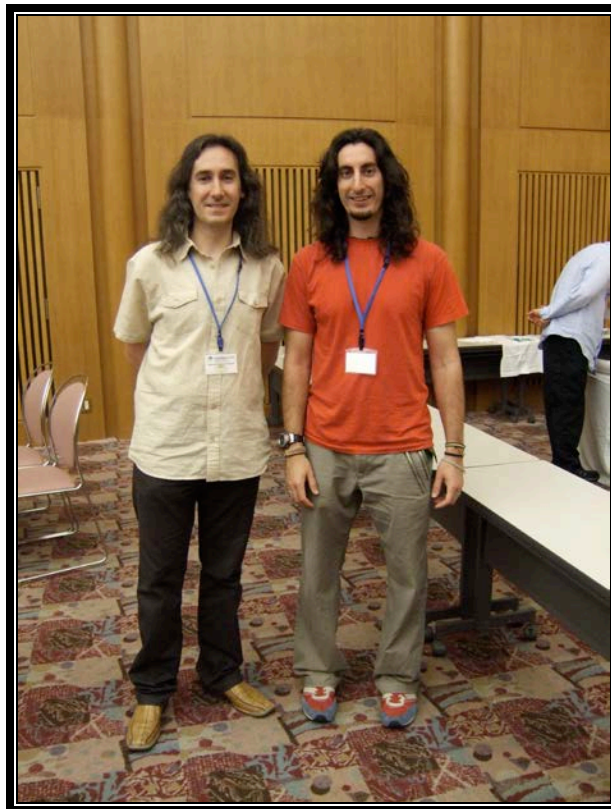
Wakayama Castle overlooking Wakayama, Japan.

Yasuhiro Takemon convenor of the 2012 Meeting.





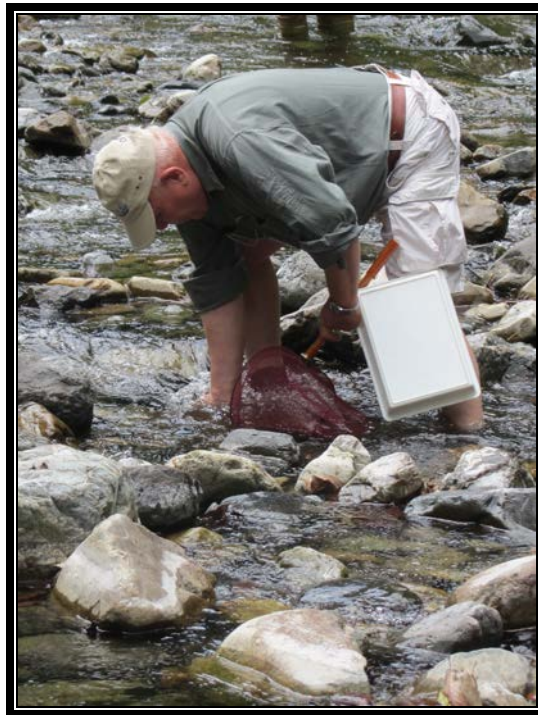
Shigekazu Uchida and Purevdorj Surenkhorloo discussing Palearctic stoneflies.



Manuel Tierno de Figueroa and Manuel Jesús López-Rodríguez reflecting on Iberian stoneflies.



Dr. Peter Zwick and Lucas Lecci collecting at the Nye River.



The master at work, **Dr. Peter Zwick**.



Participants and school children at the Dome Village.



Participants at the Conference Dinner held at GANKO.



Conference participants trying traditional Japanese drumming.
 Photograph, courtesy John Brittain



Lifetime Achievement Award Recipients Drs. **John Brittain**, **Yu Isobe** and **John Hanson** (not pictured) with presenters Prof. **Peter Zwick** (for Isobe) and Dr. **Charles Nelson** (for Dr. **John Hanson**, see *Perla* 30).

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