

# PERLA

## Annual Newsletter and Bibliography of The International Society of Plecopterologists



*Pteronarcella regularis* (Hagen), Mt. Shasta City Park, California, USA.  
Photograph by Bill P. Stark

### PERLA NO. 28, 2010

Department of Bioagricultural Sciences  
and Pest Management  
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**PERLA**  
**Annual Newsletter and Bibliography of the**  
**International Society of Plecopterologists**  
**Available on Request to the Managing Editor**

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## **PERLA SUBSCRIPTION POLICY**

Dues for membership in the International Society of Plecopterologists are \$15 U.S. per year. Members will automatically receive PERLA. Libraries or other institutions may receive PERLA by making a \$10 annual donation, or through an exchange of publications agreement approved by the Managing Editor and Editorial Board. Five dollars (\$5) of the dues will become part of the Scholarship Fund of the Society, to be used for helping active and deserving workers or students participate in future symposia.

Persons or institutions who have no support or are financially unable to pay dues may continue to receive PERLA by writing a brief note to the Managing Editor requesting a waiver of dues and to be retained on the mailing list.

**It is therefore important that you respond to this receipt of PERLA 28 (2010) in one of the following ways, in order to be kept on the mailing list for PERLA 29 (2011): (1) pay your annual dues, (2) make a \$10 donation (institutions), or (3) request a waiver. A form and self-addressed envelope are included with this issue, (PERLA 28) for your convenience in responding. NO CREDIT CARD CHARGES CAN BE ACCEPTED.**

You may send your dues or donation in the form of a personal check, bank note, cashier's check, or postal money order designated in U.S. funds to the Managing Editor. Because of high bank costs for exchange in some countries, you may send cash, in which case the Managing Editor will respond with a personal acknowledgment if it is received.

Dues and donations are used to help pay the costs of publishing and mailing PERLA, for Lifetime Achievement Award plaques presented by the Society at International Symposia and for the Scholarship Fund. The Managing Editor will make a financial report to the International Committee at each International Symposium Business Meeting or at any other time when requested.

Members or institutions whose dues remain unpaid for two consecutive years, or have not been granted exchange, waiver or emeritus status, will be dropped from the PERLA mailing list.

## Publication of the Proceedings of the International Joint Meeting on Ephemeroptera and Plecoptera 2008

The International Joint Meeting on Ephemeroptera and Plecoptera 2008 took place from June 8-14 at the State Museum of Natural History in Stuttgart, Germany. 112 researchers from 35 countries participated in the meeting. The resulting volume was published as a *Supplement* of the journal *Aquatic Insects* under the title:

A.H. Staniczek (ed.): International Perspectives in Mayfly and Stonefly Research. Proceedings of the 12th International Conference on Ephemeroptera and the 16th International Symposium on Plecoptera, Stuttgart 2008. *Aquatic Insects*, Volume 31, Supplement 1, November 2009, 1-739. Hardcover. ISSN 0165-0424.



The contributions cover the latest findings in mayfly and stonefly research and also include reviews by world renowned specialists and leading authorities in their fields. The 62 peer-reviewed papers in this volume are grouped under broad topics such as phylogeny, systematics and taxonomy; ecology, life history and reproduction; morphology, ultrastructure and physiology; and biogeography, distribution and faunistics.

All participants of the conference received a free copy and the supplement will also be offered to the subscribers of *Aquatic Insects*. It will be possible to order copies directly from the publisher.

The editor, **Dr. Arnold H. Staniczek** has a limited number of additional copies available for purchase at a price of 50€ plus postage on a first-come, first-served basis. The proceeds from these editor copies will go to the Ephemeroptera and Plecoptera Scholarship Funds to financially assist deserving students of mayflies and stoneflies to attend the International Joint Meetings. If you are interested in a copy please contact **Dr. Staniczek** at [jointmeeting08.smns@naturkundemuseum-bw.de](mailto:jointmeeting08.smns@naturkundemuseum-bw.de) for further details. The **International Society of Plecopterologists** greatly appreciates the generosity of **Dr. Staniczek**.

### **Ninth North American Plecoptera Symposium at Sagehen Creek Field Station, California, 22-25 June 2009**

The Ninth North American Plecoptera Symposium was held at the University of California, Berkeley Sagehen Creek Field Station and hosted by **Drs. Bill Shepard** and **Andy Sheldon**. Twenty-three researchers from throughout U.S. and a few “understanding” spouses participated. This meeting was unique, that all papers and posters were presented in an outdoor forum setting. The actual sitting area was between tall conifers and just about 100 m from a pristine Sierra Nevada Mountain stream, the well-known Sagehen Creek. All serious collectors had vials of ethanol ready to be used as adult stoneflies and other insects were flying about at all times. It was fantastic to have *Sweltsa townesi* (Ricker) adults walking around on the person in front of you as one was trying to concentrate on the excellent presentations! The meeting agenda included 4 sessions with 19 oral presentations and 2 posters, covering topics such as stonefly ecology, life history, drumming, taxonomy and phylogeography:

**John Sandberg**. The drumming signals of *Hesperoperla hoguei* and *Hesperoperla pacifica* (Plecoptera: Perlidae) from northern California.

**Bill P. Stark & Matthew B. Hicks**. New records of winter stoneflies (Plecoptera: Capniidae) for Mississippi, and development of an annual winter stonefly count.

**Ember R. Chabot, R. Edward DeWalt & Rosanna Giordano**. Current range and regional genetic diversity of *Acroneuria frisoni* Stark & Brown, 1991: A prelude to reintroduction of the species to eastern Illinois.

**Richard L. Bottorff**. Life history of *Cosumnoperla hypocrena* (Plecoptera: Perlodidae) : Adaptation to a California intermittent stream.

**S. W. Szczytko & B. C. Kondratieff**. A review of undescribed taxa of eastern Nearctic *Isoperla* (Plecoptera: Perlodidae).

**Alicia S. Schultheis, Jackie Y. Booth, Lisa R. Perlmutter & Andrew L. Sheldon.** Phylogeography of Great Basin sky island populations of *Doroneuria baumanni* (Plecoptera: Perlidae).

**Kenneth W. Stewart.** New descriptions of North American *Taenionema* nymphs (Plecoptera: Taeniopterygidae).

**David B. Herbst, Erik L. Silldorff & Scott D. Cooper.** The influence of introduced trout on the Perlidae of the High Sierra: Contrasting fishless and trout-stock paired headwater streams in Yosemite National Park.

**Audrey B. Harrison & Bill P. Stark.** A scanning electron microscopy study of Mississippi Leuctridae with a description of a possible new species in the *Leuctra ferruginea* complex.

**Charles H. Nelson.** Notes on the *Diura* population of Mount Washington, New Hampshire, USA.

**Michele R. Willett & Bill P. Stark.** The *Alloperla leonarda* group of eastern North America (Plecoptera: Chloroperlidae).

**William D. Shepard & Richard W. Baumann.** Stoneflies in the canopy--- Que pasa?

**John Sandberg.** Preliminary nymph descriptions of four *Isoperla* species (Plecoptera: Perlodidae) from California and Oregon with an introduction to mouthpart characters used for separation of western species.

**Jane Earle.** A picture is worth a thousand words. Continuing studies of the distribution of Pennsylvania stoneflies.

**R. Edward DeWalt & Rosanna Giordano.** Testing some of Ross & Ricker's *Allocapnia* hypotheses of Wisconsinan post-glacial dispersion using population genetic variation in *Allocapnia granulata* (Claassen, 1924).

**Jeff Brown.** Sagehen Creek Field Station: Environments and research programs.

**John Sandberg.** Preliminary report of the drumming signals for 19 stoneflies (Plecoptera) from northern California.

**Richard W. Baumann & Boris C. Kondratieff.** Two new genera of Brachypterainae (Plecoptera: Taeniopterygidae) from North America.

**Andrew L. Sheldon.** Tropical stoneflies: Low diversity or different rules?

**C. Riley Nelson & Richard W. Baumann.** Correction of a misidentification of *Capnia umpqua*, including a description of a new species.



**R. Edward DeWalt & Scott A. Grubbs.** *Acroneuria filicis* Frison: an assessment of geographic variability using scanning electron microscopy, and the plausibility of new species descriptions.

The **Tenth North American Plecoptera Symposium** is being planned. **Dr. R. Edward DeWalt** and **Jane Earle** will be serving as hosts. The consensus at the meeting was that it would be held in the Midwest, in a place where the collecting is great, but where accessibility and price were reasonable. **Dr. DeWalt** has spoken to a few people about using field stations, but nothing is definite yet. Jane and Ed will begin in earnest in 2010 to book a place and begin planning for the meeting. Keep June of 2012 open!



**The group of familiar North American stonefly workers.**

**Kneeling (L to R):** Riley Nelson, Bill Shepard, Cheryl Barr  
**Front row (l to R):** John Lee, John Slusark, Charlie Nelson, Dick Baumann, Ember Chabot, Jan Earle, Stan Szczytko, Kelly Nye, Audrey Harrison  
**Back Row (L to R):** Eugene Drake, Massimo Pessino, Ed DeWalt, Rich Bottorff, Bill Stark, Andy Sheldon, Ken Stewart, John Sandberg, Brady Richards, Boris Kondratieff  
**Not pictured:** Larry Jackson, Dave Herbst, Jeff Brown





**The rustic facilities at Sagehen Biological Station.**



**Drs. Bill Stark and Stan Szczytko discussing stoneflies, of course!**



**Dr. Richard W. Baumann presenting one of his several papers.**



**Massimo Pessino, a PhD student from northern Italy attending the University of Illinois using a beating sheet to collect stoneflies along California Sierra stream.**



**Two new plecopterologists, Audrey Harrison and Kelly Nye (Mississippi College) sampling at Big Spring, a famous stonefly collecting site in California. If one looks closely, *Sierraperla cora* (Needham & Smith) and *Soliperla sierra* Stark are running about.**



**Dr. R. Edward DeWalt, one of the hosts of NAPS-10 in 2012.**

**Article:**

Stonefly (Plecoptera) Collecting at Sagehen Creek Field Station, Nevada County,  
California During the Ninth North American Plecoptera Symposium

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The Ninth North American Plecoptera Symposium was held at the University of California's Berkeley Sagehen Creek Field Station from 22 to 25 June 2009. The rather close proximity of Sagehen Creek to the actual meeting site (less than 100 m away) surely encouraged collecting of stoneflies. Sagehen Creek Field Station is located on the eastern slope of the northern Sierra Nevada Mountains of California, approximately 32 km north of Lake Tahoe. The Field Station occupies 183 ha. Sagehen Creek itself extends about 13 km from the headwater on Carpenter Ridge, east of the Sierra Crest to Stampede Reservoir on the Little Truckee River. The stream is fed by springs, fens, and other wetlands. The Sagehen Basin spans a significant precipitation gradient resulting in variation of stream flow. Sheldon and Jewett (1967) and Rademacher et al. (2005) provide specific ecological details for the stream.

The authors used primarily beating sheets to collect material, whereas, A. L. Sheldon used a sweep net and searched nearby structures and under boards for resting adults in 1965. Material listed below is housed in Richard W. Baumann Aquatic Insect Collection, Monte L. Bean Life Science Museum, Brigham Young University, C. P. Gillette Museum of Arthropod Diversity, Colorado State University, and the J. J. Lee Collection, Eureka, California.

The aquatic fauna of Sagehen Creek is relatively well-known (Erman 1989, 1992). Regarding the Plecoptera, Sheldon and Jewett (1967) reported 31 species of stoneflies from Sagehen Creek. Numerous taxonomic changes have occurred since the publication of Sheldon and Jewett (1967) list of taxa (see Stark et al. 2009).

Sheldon and Jewett (1967) in their Figure 3 indicated adults of the following species were emerging or active in the later part of June: *Eucapnopsis brevicauda* Claassen, *Paraleuctra vershina* Gaufin and Ricker, *Podmosta delicatula* (Claassen), *Prostoia besametsa* (Ricker), *Zapada cinctipes* (Banks), *Sweltsa townesi* (Ricker), *Calineuria californica* (Banks), and *Rickera sorpta* (Needham and Claassen). All these species were collected by us. However, interestingly, the following species were collected by us from Sagehen Creek and not reported by Sheldon and Jewett (1967): *Malenka marionae* (Hitchcock), *Alloperla chandleri* Jewett, *S. borealis* (Banks) complex, *S. pacifica* (Banks), and *Isoperla sobria* (Hagen). *Malenka marionae* was described by Hitchcock (1958) from a spring draining into Sagehen Creek, and those adults listed by us from the Sagehen Creek may have originated from nearby springs, as well as *Moselia infuscata* (Claassen), *Soyedina nevadensis* (Claassen), and *S. borealis* complex. Interestingly, a species described by Surdick (1981) from springs draining into Sagehen Creek, *Plumiperla spinosa* was not collected. In 1965, *S. townesi* was considered by Sheldon and Jewett (1967) as an "abundant" species, and it was one of the three most commonly collected stonefly adults (Table 1), along with *P. vershina* (as *P. sara* (Claassen) in Sheldon and Jewett (1967)) and *P. delicatula*, both considered "common" in 1965 by Sheldon and Jewett (1967). Surprisingly, *A. chandleri* was a common species during our collections, but was not listed by Sheldon and Jewett (1967). The remaining species listed by Sheldon and Jewett (1967) are relatively common in Sierra Nevada Mountains streams.

### Acknowledgements

We especially thank Drs. William D. Shepard and Andy Sheldon for hosting this successful and enjoyable meeting. Andy Sheldon and Bill P. Stark reviewed an earlier draft of this note.

### Literature Cited

- Erman, N. A. 1989. Species composition, emergence, and habitat preferences of Trichoptera of the Sagehen Creek Basin, California, USA. *Great Basin Naturalist* 49: 186-197.
- Erman, N. A. 1992. Factors determining biodiversity in Sierra Nevada cold spring systems. In C. Hall, Jr., V. Doyle-Jones, and B. Widawski (eds.), *The history of water, eastern Sierra Nevada, Owens Valley, White-Inyo Mountains*, pp. 119-127. University of California, White Mountain Research Station, Symposium. Vol. 4.
- Hitchcock, S. 1958. New California Plecoptera. *Pan-Pacific Entomologist* 34: 77-80
- Jewett, S. G., Jr. 1960. The stoneflies (Plecoptera) of California. *Bulletin of the California Insect Survey* 6: 125-177.
- Rademacher, L. K., J. F. Clark, D. W. Clow, and G. B. Hudson. 2005. Old groundwater influence on stream hydrochemistry and catchment response times in a small Sierra Nevada catchment: Sagehen Creek, California. *Water Resources Research* 41: W02004, doi10.1029/2003WR002805.
- Sheldon, A. L. and S. G. Jewett, Jr. 1967. Stonefly emergence in a Sierra Nevada Stream. *Pan-Pacific Entomologist* 43: 1-8.
- Stark, B. P., R. W. Baumann, and R. E. DeWalt. 2009. Valid stonefly names for North America. Plecoptera Society of North America. Updated as 3/19/2009. <http://plsa.inhsuiuc.edu/plecoptera/validnames.aspx>
- Surdick, R. F. 1981. New Nearctic Chloroperlidae (Plecoptera). *Great Basin Naturalist* 41: 349-359.

Table 1. List of Plecoptera Collected From Sagehen Creek, Nevada Co., California during 2009 NAPS Meeting, 22-25 June 2009.

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#### **Sagehen Creek (including Rd 11, Biological Station)**

##### Capniidae

*Eucapnopsis brevicauda* Claassen 1 ♂, 7 ♀

##### Leuctridae

*Moselia infuscata* (Claassen) 1 ♂, 1 ♀

*Paraleuctra vershina* Gaufin and Ricker 87 ♂, 91 ♀

##### Nemouridae

*Malenka marionae* (Hitchcock) 2 ♂, 8 ♀

*Podmosta delicatula* (Claassen) 85 ♂, 127 ♀

*Soyedina nevadensis* (Claassen) 2 ♂, 1 ♀

*Zapada cinctipes* (Banks) 1 ♀

*Zapada oregonensis* (Claassen) 3 ♂, 4 ♀

##### Chloroperlidae

*Alloperla chandleri* Jewett 49 ♂, 24 ♀

*Alloperla delicata* Frison 36♂, 25♀  
*Sweltsa borealis* (complex?) 1♂, 1♀  
*Sweltsa pacifica* (Banks) 1♂  
*Sweltsa townesi* (Ricker) 128♂, 71♀  
Peltoperlidae  
*Yoraperla nigrisoma* (Banks) 2♂  
Pteronarcyidae  
*Pteronarcella regularis* (Hagen) 4♀  
Perlidae  
*Calineuria californica* (Banks) 1♂  
Perlodidae  
*Isoperla sobria* (Hagen) 1♂, 1♀  
*Frisonia picticeps* (Hanson) 1♀  
*Rickera sorpta* (Needham & Claassen) 1♀

### **Sagehen Creek springs including Kiln Creek**

Capniidae  
*Eucapnopsis brevicauda* Claassen 1♂  
Leuctridae  
*Moselia infuscata* (Claassen) 12♂, 16♀  
*Paraleuctra vershina* Gaufin and Ricker 51♂, 95♀  
Nemouridae  
*Malenka marionae* (Hitchcock) 74♂, 72♀  
*Podmosta delicatula* (Claassen) 12♂, 30♀  
*Prostoia besametsa* (Ricker) 2♀  
*Soyedina nevadensis* (Claassen) 3♂, 6♀  
Chloroperlidae  
*Alloperla delicata* Frison 1♂  
*Sweltsa borealis* (Banks) (complex?) 92♂, 30♀  
*Sweltsa townesi* (Ricker) 17♂, 6♀  
Peltoperlidae  
*Yoraperla nigrisoma* (Banks) 45♂, 28♀  
Perlodidae  
*Isoperla sobria* (Hagen) 1♂, 2♀

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## **2011 XIIIth International Conference on Ephemeroptera, XVIIth International Symposium on Plecoptera in JAPAN**

The dates have been set, **June 5-11, 2011**. The meeting will be held at the Sei-sen-ryo lodge. Site: [http://www.keep.or.jp/shisetu/seisen\\_ryo/](http://www.keep.or.jp/shisetu/seisen_ryo/)  
Access the meeting website for further information and details:  
<http://cse.ffpri.affrc.go.jp/yoshi887/jointconference2011.html>

The preliminary program schedule (from website):



June 5 (Sun)	Transportation from airports Registration Welcome party
June 6 (Mon)	Sessions on phylogeny, systematic, taxonomy
June 7 (Tue)	Sessions on Ecology, life history, reproduction, biology, physiology Evening reception
June 8 (Wed)	Mid conference trip Barbecue party
June 9 (Thu)	Sessions on community and conservation ecology
June 10 (Fri)	Sessions on biogeography, distribution, morphology, ultrastructure Farewell party
June 11 (Sat)	Post conference trip Transportation to cities and airports

### Meeting Deadlines

September 1, 2010: Registration will open

November 30, 2010: Early registration

February 28, 2011: Regular registration, Abstract submission

### Tentative Fees

	Early registration fee
Student	35000Jp Yen (US\$ 388)
Regular	50000Jp Yen (US\$ 554)
Accompanying person	30000Jp Yen (US\$ 332)

### For further details contact:

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Dr. Koji Tojo: [ktojo@shinshu-u.ac.jp](mailto:ktojo@shinshu-u.ac.jp)

Start making your travel arrangements and paper preparations.

**The IXth European Congress of Entomology** will be held in Budapest, Hungary between 22-27 August 2010. There will be a symposium on the Plecoptera, chaired by Drs. **Ignac Sivec** ([isivec@pms-lj.si](mailto:isivec@pms-lj.si)) and **Dávid Murányi** ([muranyi@zool.nhmus.hu](mailto:muranyi@zool.nhmus.hu)). Contact these chairs if you have an interest in participating.

## Illiesia

**Illiesia, International Journal of Stonefly Research** has just completed its 5<sup>th</sup> year of on-line publications on topics dealing with any area of plecopteran research. During the first five years of existence, 76 articles, submitted by 35 different authors have been published. Articles continue to be subjected to rigorous peer review under direction of the Advisory Board and Editors. The Editors are Ignac Sivec, Slovenian Museum of Natural History and Bill P. Stark, Mississippi College Department of Biology. Boris Kondratieff, Richard Baumann, Kenneth Stewart, Stan Szczytko, C. Riley Nelson, Charles H. Nelson, John Brittain, Takao Shimizu, Claudio Froehlich, Wolfram Graf and Peter Harper serve on the Advisory Board, and journal formatting is under the direction of Mia Sivec and Mojmir Stangelj. Our first issue in 2005 contained nine articles and our latest in 2009 included 21. We are grateful for your support and we invite your submissions for consideration for Volume 6. Questions or submissions can be directed to [isivec@mrc.pms-lj.si](mailto:isivec@mrc.pms-lj.si) or [stark@mc.edu](mailto:stark@mc.edu). Articles may be viewed at the Illiesia website, <http://www2.pms-lj.si/illiesia/>

## MEMBER NEWS

**Dr. Carlalberto Ravizza** has written an attractive popular guide to the “**Plecotteri in Italia**” for the naturalist and general enthusiasts of insects. This 44 page booklet provides an overview of the stoneflies of Italy including comments on nymphal and adult morphology and biological and biogeographical information for this group. Thirty-five wonderful color photographs of selected species are included. The booklet has been made available put on the website of the SEI (Società entomologica italiana) <[www.socentomit.it](http://www.socentomit.it)>; click on ITALIANO, then SERVIZI, finally click Articoli in rete “Plecotteri in Italia”. Contact Dr. Ravizza at [albertoravizza@libero.it](mailto:albertoravizza@libero.it) for questions or for a copy.

**Drs. Valentina A. Teslenko** and **Lidija A. Zhiltzova** have made available a significant contribution to the Plecoptera “Keys to the stoneflies (Insecta, Plecoptera) of Russia and adjacent countries. Imagines and larvae.” as a down loadable pdf: <http://www.biosoil.ru/files/00008625.pdf>

**Drs. J. Manuel Tierno de Figueroa** and **Manuel J. López-Rodríguez**, University of Granada (Spain) are working on nymphal biology (life cycle, feeding and secondary production) in southern Spain and northern Italy, in collaboration with **Drs. Luzón-Ortega, Fenoglio and Bo**. With these researchers, they are collaborating in a study of leaf packs colonization by stoneflies. Moreover, a physiological study of stoneflies from permanent and temporary streams is being carried out in collaboration with **Dr. Sanz et al.** Both researchers are also studying the only known population of a cavernicolous stonefly species inhabiting at 60 meters deep in a cave, and they are collaborating with **Dr. Luzón-Ortega** in a study of the drumming of several species of stoneflies from southern Iberian Peninsula. They are preparing two chapters for a Spanish Red Book of Invertebrates on two threatened species, *Nemoura rifensis* and *Leuctra bidula*. **J. Manuel Tierno de Figueroa** is also collaborating with **Dr. Fochetti** in genetic approaches for the

resolution of taxonomical problems of stoneflies, and with **Dr. Derka** in some nymphal biology studies of species inhabiting streams with constant temperature in Slovakia. With the latter and with **Dr. Gamboa** also a punctual collaboration on stoneflies from the Tepuis from Venezuela is being made.

**R. Edward DeWalt and graduate students Massimo Pessino and Ember Chabot.**  
**University of Illinois, Illinois Natural History Survey, 1816 S Oak St., Champaign, IL 61820.** [dewalt@illinois.edu](mailto:dewalt@illinois.edu), [pessino1@illinois.edu](mailto:pessino1@illinois.edu), [chabot1@illinois.edu](mailto:chabot1@illinois.edu)

Ember (Master's student) and I are using sequence variation in the mtDNA Cytochrome Oxidase I (COI) gene to study the phylogeography of two stoneflies: *Acroneuria frisoni* (Perlidae) and *Allocapnia granulata* (Capniidae), both of eastern North America. The inspiration for this work is the as yet untested Ross & Ricker (1971) hypotheses of post-glacial dispersion and refugium usage for *Allocapnia*.

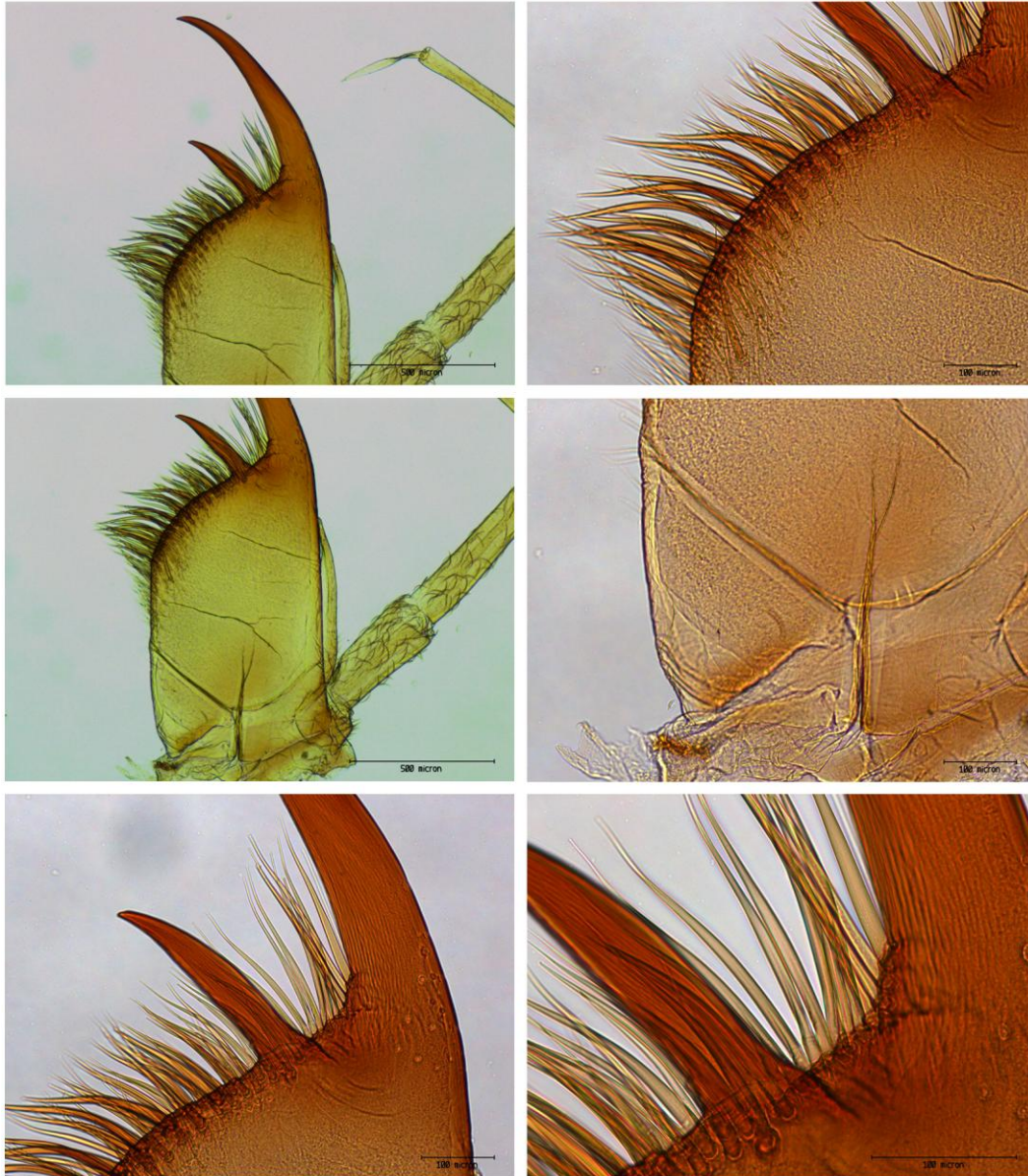
Both species have at least two refugia, including the western flank of the Appalachians through central Tennessee and the Interior Highlands of Missouri and Arkansas. *Allocapnia granulata* demonstrates much greater variation and a more complex glacial history than *A. frisoni*. The former has high nucleotide diversity in the Gulf South and in Pennsylvania and New York, suggesting the possibility of additional refugia. New samples from eastern seaboard drainages, tributaries of the Tennessee and Cumberland Rivers, and for *A. granulata* streams of the Wichita and Ouachita Mts. will help to flesh out the number of refugia and their relative contributions to repopulation of areas north of the Ohio River. To the avid collectors among you, we could use additional specimens of *A. granulata* from these areas. I currently have a proposal into the USA National Science Foundation (NSF) to assess the phylogeography of additional stoneflies (and some mayflies and caddisflies) and could use 10 or more specimens of *Allocapnia recta*, *A. rickeri*, *A. minima*, and *A. pygmaea* from throughout their range.

Massimo, recently translocated from Italy (former Stefano Fenoglio student), has just started his PhD and will be working on a combined molecular and morphological phylogeny of subfamily and tribe relationships within the Perlidae. He will expand on the fine work of Sivec, Stark, & Uchida (1988) (world Perlinae) to include Acroneuriinae. Molecular analysis will utilize the experience of Matthew Terry (2003 dissertation) to include genes that are appropriate for the long evolutionary time frames involved. Massimo will also work on a project to model the distribution of Midwest USA species using museum specimen data. This work, funded by NSF, will predict which moderately sized drainages species should be present in and what factors are important in their distribution. This project is a collaboration with several INHS colleagues (Yong Cao, Leon Hinz, Tari Tweddale) and Scott Grubbs of Western Kentucky University.

**John Sandberg, Aquatic Bioassessment Lab (ABL)-CA Dept. Fish & Game, CSU Chico, California.**

I continue to study stoneflies of California and Oregon. Two papers are in progress, one that focuses on the drumming of 12 western *Isoperla* species and a second describing the signals from 14 other California species. My work on revising the *Isoperla* nymphs of California and Oregon also continues. After a re-examination of nymphs collected in Oregon during the May 2001 sampling expedition led by K.W.

Stewart and B.P Stark, I believe I have found the elusive *I. gravitans* (Needham & Claassen 1925). The *I. gravitans* location will be visited several times this spring in hopes of rearing and associating the nymph to the adult stage for this exciting species. Additionally, I hope to do the same for *Isoperla rougensis* Szczytko & Stewart 1984. If anyone has any far western *Isoperla* species, especially reared *I. rougensis* adults with intact exuviae, I wish to borrow this material to slide-mount exuviae and larval maxillae. I will return specimens and permanent slide mounts within one month after arrival. Below are light micrographs of the female maxilla for the suspected *I. gravitans* nymph collected at Willis Creek, OR 17-V-2001. It is very unique among western species with a dense brush of setae covering the lacinia distal margin and submargin. All other western *Isoperla* species possess two distinct rows of setae along these margins.





**RECENT PLECOPTERA LITERATURE (CALENDAR YEAR 2009 AND EARLIER).** Papers made available after 1 February 2010 will be included in the next issue. **If papers were missed, please bring these to the attention of the Managing Editor.** Dr. Peter Zwick is thanked for reviewing and providing additions to this present list.

Adams, S. E., A. S. Adams, and W. E. Holben. 2009. Tri-trophic linkages in disease: Pathogen transmission to Rainbow Trout through stonefly prey. *Environmental Entomology* 38: 1022-1027.

Amore, V. and R. Fochetti. 2009. Present knowledge on the presence of hemocyanin in stoneflies (Insecta: Plecoptera). *Aquatic Insects*, 31, Supplement 1:577-583.

Amore, V, M. Belardinelli, L. Guerra, F. Buonocore, A. M. Fausto, N. Ubero-Pascal, and R. Fochetti.. 2009. Do all stoneflies nymphs have respiratory proteins? Further data on the presence of hemocyanin in the larval stages of Plecoptera species. *Insect Molecular Biology* 18: 203-211.

Arimoro, F. O. and R. B. Ikomi. 2009. Ecological integrity of upper Warri River, Niger Delta using aquatic insects as bioindicators. *Ecological Indicators* 9: 455-461.

Asiah, W. N., W. M. A., M. R. Che Salmah, and I. Sivec. 2009. Description of *Etrocorema belumensis* sp. n. from Royal Belum State Park, Perak, Malaysia. *Illiesia* 5: 182-187.

Baumann, R. W. and B. C. Kondratieff. 2009. A study of the eastern Nearctic *Alloperla* (Plecoptera: Chloroperlidae) with hirsute epiprocts using the scanning electron microscope. *Illiesia* 5: 99-107.

Baumann, R. W. and B. C. Kondratieff. 2009. Studies on *Oemopteryx vanduzeeae* (Claassen, 1937) and a new species in the *O. vanduzeeae* species group (Plecoptera: Taeniopterygidae) from the Pacific Northwest. *Aquatic Insects* 31, Supplement 195-202.

Baumann, R. W. and B. C. Kondratieff. 2009. Studies on the Holarctic subfamily Brachypterainae (Plecoptera: Taeniopterygidae) using the scanning electron microscope to study male terminalia. *Aquatic Insects* 31, Supplement 1: 219-230.

Baumann, R. W. and J. J. Lee. 2009. Two interesting new species of *Isoperla* from northern California (Plecoptera: Perlodidae). *Illiesia* 5: 1-10.

Baumann, R. W. and B. P. Stark. 2009. *Paraleuctra alta* (Plecoptera: Leuctridae), a new stonefly from Alberta, Canada. *Illiesia* 5: 30-33.

Baumann, R. W. and K. W. Stewart. 2009. What is *Capnia umpqua* Frison? (Plecoptera: Capniidae), distribution and variation of terminalia. *Illiesia* 5: 34-39.

Beche, L. A. and B. Statzner. 2009. Richness gradients of stream invertebrates across the USA: taxonomy- and trait-based approaches. *Biodiversity and Conservation* 18: 3909-3930.

Bellstedt, R. and J. Kaiser. 2008. Zur Limnofauna der Kiesgruben Herrenhof/Georgenthal im Landkreis Gotha Thüringen unter besonderer Berücksichtigung der Libellen (Insecta, Odonata). [To the limnofauna of the gravelpits Herrenhof/Georgenthal in the county Gotha Thüringen, with special reference to Odonata (Insecta, Odonata)]. *Abhandlungen und Berichte des Museums der Natur Gotha* 25: 57-62. *Isoperla grammatica*, *Leuctra fusca*, *L. albida* an der Apfelstädt gesammelt. Buch PZ.

- Benstead, J. P., J. G. March, C. M. Pringle, K. C. Ewel, and J. W. Short. 2009. Biodiversity and ecosystem function in species-poor communities: community structure and leaf litter breakdown in a Pacific island stream. *Journal of the North American Benthological Society* 28: 454-465.
- Bethoux, O. and F. Wieland. 2009. Evidence for Carboniferous origin of the order Mantodea (Insecta: Dictyoptera) gained from forewing morphology. *Zoological Journal of the Linnean Society* 156: 79-113.
- Biervliet, O. van, K. Wisniewski, J. Daniels and J. R. Vonesh. Effects of tea plantations on stream invertebrates in a global biodiversity hotspot in Africa. *Biotropica* 41: 469-475.
- Bo, T., S. Fenoglio, M. J. López-Rodríguez, and J. M. Tierno de Figueroa. 2009. Phenology of adult stoneflies (Plecoptera) of the Curone stream (northern Apennines, Italy). *Journal of Freshwater Ecology* 24: 279-283.
- Bojková, J. 2009. Revision of the stonefly collections (Plecoptera) by E. Křelinová and J. Raušer from the Czech Republic. *Aquatic Insects*, 31, Supplement 1:245-251.
- Bojková, J. and J. Helešic. 2009. Spring fens as a unique biotope of stonefly larvae (Plecoptera): species richness and species composition gradients. *Aquatic Insects*, 31, Supplement 1:359-367.
- Bonner, L. A., R. L. Hayes, J. L. Lister, and J. R. Wolf, Jr. 2009. Rapid bioassessment of Crabtree Creek (Wake County, North Carolina) using macroinvertebrate and microbial indicators. *Journal of Freshwater Ecology* 24: 227-238.
- Boonsoong, B, N. Sangpradub, and M. T. Barbour. 2009. Development of rapid bioassessment approaches using benthic macroinvertebrates for Tai streams. *Environmental Monitoring and Assessment* 155: 129-147.
- Bouchard, R., W., Jr., B. E. Schuetz, L. C. Ferrington, Jr., and S. A. Kells. 2009. Cold hardiness in the adults of two winter stonefly species: *Allocapnia granulata* (Claassen, 1924) and *A. pygmaea* (Burmeister, 1839) (Plecoptera: Capniidae). *Aquatic Insects* 31: 145-155.
- Bredenhand, E. and M. J. Samways. 2009. Impact of a dam on benthic macroinvertebrates in a small river in a biodiversity hotspot: Cape Floristic Region, South Africa. *Journal of Insect Conservation* 13: 297-307.
- Brettfeld R, R. Bellstedt and F. Nixdorf. 2007. Zur Gewässerfauna der Rodach in Südthüringen [On the aquatic fauna of the Rodach in South Thuringia]. *Veröffentlichungen des Naturhistorischen Museum Schleusingen* 22: 93-106.
- Brittain, J. E.; G. M. Gislason, V. I. Ponomorev, J. Bogen, S. Brørs, A. J. Jensen, L. G. Khoklova, S. K. Kochanov, A. V. Kokovkin, K. Melvold, J. S. Olafsson, L-E. Pettersson, and A. S. Stenina. 2009. Arctic Rivers. Pp. 337-379. *In*: Tockner, K., U. Uehlinger, and C. T. Robinson (eds). *Rivers of Europe*. Elsevier, Amsterdam, Holland. 700 pp.
- Brown, L. E., R. Cereghino, and A. Compin. 2009. Endemic freshwater invertebrates from southern France: diversity, distribution and conservation. *Biological Conservation*. 142: 2613-2619.
- Bruno, M. C., B. Maiolini, M. Carolli, and L. Silveri. 2009. Impact of hydropeaking on hyporheic invertebrates in an alpine stream (Trntino, Italy). *Annales de Limnologie, International Journal of Limnology* 45: 157-170.
- Cao, T. K. T. and Y. J. Bae. 2008. *Neoperlops vietnamellus*, a rare stonefly from Vietnam (Plecoptera: Zootaxa 1968: 33-38.



- Cao, T. K. T. and Y. J. Bae. 2009. *Phanoperla namcattien*, a new stonefly from Vietnam (Plecoptera: Perlidae). *Zootaxa* 1983: 66-68.
- Carapelli A., P. Liò, F. Nardi, E. van der Wath and F. Frati. 2007. Phylogenetic analysis of mitochondrial protein coding genes confirms the reciprocal paraphyly of Hexapoda and Crustacea. *BMC Evolutionary Biology* 2007, 7 (Suppl 2): 8; doi:10.1186/1471-2148-7-S2-S8
- Cary S. J. and G. Z. Jacobi. 2008. Zoogeographic Affinities of Southwestern USA Plecoptera. pp. 133-157 *In: Hauer, F. R., J. A. Stanford and R. L. Newell (eds), International Advances in the Ecology, Zoogeography and Systematics of Mayflies and Stoneflies, UC Publications in Entomology, University of California Press, Berkeley, Los Angeles, London, X + 412 pp.*
- Cherchesova S.K. and I. D. Sukatsheva. 2007. On the occasion of the 80th birthday of Lidia Andreyevna Zhiltzova. p. 16-18. *In: Questions of Aquatic Entomology in Russia and Adjacent Lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. Voronezh, Voronezh Univ. Press. 409 pp. (In Russian).*
- Cherchesova, S. K., L. A. Zhiltzova, and M. N. Shioloshvili. 2007. Description of the larva of the stonefly *Brachyptera transcaucasica* Zhiltzova, 1956 (Plecoptera, Taeniopterygidae). *Entomologicheskoe Obozreniye* 86(2): 360-362. (In Russian, English summary).
- Cherchesova, S. K., M.N. Shioloshvili, and L. A. Haseeva. 2009. Zoogeographic features of the stonefly fauna (Plecoptera) of the River Terek basin, North Ossetia. *Aquatic Insects*, 31, Supplement 1:727-729.
- Collier, K. J. 2008. Average score per metric: an alternative metric aggregation method for assessing wadeable stream health. *New Zealand Journal of Marine and Freshwater Research* 42: 367-378.
- Cooper, M. J., R. R. Rediske, D. G. Uzarski, and T. M. Burton. 2009. Sediment contamination and faunal communities in two subwatersheds of Mona Lake, Michigan. 2009. *Journal of Environmental Quality* 38: 1255-1265.
- Cser, B. 2009. Faunistical investigation on mayfly (Ephemeroptera) and stonefly (Plecoptera) fauna at Gyurufu on the Biodiversity Day. *Natura Somogyiensis* 13: 73-76.
- Death, R. G., Z. S. Dewson, and A. B. W. James. 2009. Is structure or function a better measure of the effects of water abstraction on ecosystem integrity? *Freshwater Biology* 54: 2037-2050.
- DeWalt, R. E., Y. Cao, L. Hinz, and T. Tweddale. 2009. Modelling of historical stonefly distributions using museum specimens. *Aquatic Insects*, 31, Supplement 1:253-267.
- Duan, X. H. Z. Y. Wang, M. Z. Xu, and K. Zhang. 2009. Effect of streambed sediment on benthic ecology. *International Journal of Sediment Research* 24: 325-338.
- Earle, J. 2009. New state stonefly (Plecoptera) records for Pennsylvania, with additional records and information on rare species. *Illiesia* 5: 169-181.
- Earle, J. 2009. Stoneflies (Plecoptera) from Mount Misery Brook in the New Jersey pinelands, with nine new stonefly records for New Jersey, U.S.A. *Entomological News* 120: 157-170.
- Echols, B. S., R. J. Currie, and D. S. Cherry. 2009. Influence of conductivity dissipation on benthic macroinvertebrates in the North Fork Holston River, Virginia downstream of a point source brine discharge during severe low-flow conditions. *Human and Ecological Risk Assessment* 15: 170-184.

- Elliott, J. M. 2009. Inter-and intra-specific differences in the number of larval instars in British populations of 24 species of stoneflies (Plecoptera). *Freshwater Biology* 54: 1271-1284.
- Ellison, C. A., Q. D. Skinner, and L. S. Hicks. 2009. Assessment of best-management practice effects on rangeland stream water quality using multivariate statistical techniques. *Rangeland Ecology & Management* 62: 371-386.
- Eriksen, T. E. J. V. Arnekleiv, and G. Kjaerstad. 2009. Short-term effects on riverine Ephemeroptera, Plecoptera, and Trichoptera of rotenone and aluminum sulfate treatments to eradicate *Gyrodactylus salaris*. *Journal of Freshwater Ecology* 24: 597-607.
- Feeley H., J.-R. Baars, and M. Kelly-Quinn. 2009. The life history of *Perla bipunctata* Pictet, 1833 (Plecoptera: Perlidae) in the upper River Liffey, Ireland. *Aquatic Insects* 31(4): 261-270.
- Fenoglio, F. And T. Bo. 2009. Lineamenti di ecologia fluvial {Fundamentals of river ecology}. De Agostini Scuola ApA-Novara. 252 pp (In Italian)
- Fenoglio, S., T. Bo, M. J. López-Rodríguez, and J. M. Tierno de Figueroa. 2009. Nymphal biology of *Brachyptera risi* (Morton, 1896) (Plecoptera, Taeniopterygidae) in a North Apennine stream (Italy). *Entomologica Fennica* 19: 228-231.
- Fenoglio, S., T. Bo, M. J. López-Rodríguez, J. M. Tierno de Figueroa, and G. Malacarne G. 2009. Preimaginal feeding habits of *Isoperla carbonaria* Aubert, 1953 (Plecoptera, Perlodidae). *Aquatic Insects*, 31, Supplement 1: 401-407.
- Fochetti, R. and J. M. Tierno de Figueroa. 2008. Plecoptera. In: Fauna d'Italia, vol. 43. Ed. Calderini de Il Sole 24 ore. Milan. 339 pp.
- Fochetti, R. and G. Vincon. 2009. A new species of *Nemoura* (Plecoptera: Nemouridae) from Central Italy. *Zootaxa* 2216: 64-68.
- Fochetti, R. and J. M. Tierno de Figueroa. 2009. A new species of Leuctridae discovered by means of molecular and biochemical approaches: *Tyrrhenoleuctra antoninoi* n. sp. (Insecta: Plecoptera). *Zootaxa* 2112: 41-46.
- Fochetti, R., J. M. Tierno de Figueroa, M. V. Modica, and M. Oliverio. 2009. Molecular systematic and biogeography of the western Mediterranean stonefly genus *Tyrrhenoleuctra* (Insecta, Plecoptera). *Journal Zoological Systematics and Evolutionary Research* 47: 328-336.
- Frank, J.H. and L. P. Lounibos. 2009. Insects and allied associated with bromeliads: a review. *Terrestrial Arthropod Reviews* 1: 125-153.
- Gamboa, M. and J. Arrivillaga. 2009. An efficient method for DNA extraction from preserved stoneflies (Insecta: Plecoptera). *Journal of the Entomological Research Society* 11: 53-63.
- Gamboa, M., M. M. Chacon, and S. Segnini. 2009. Diet composition of the mature larvae of four *Anacroneria* species (Plecoptera: Perlidae) from Venezuelan Andes. *Aquatic Insects* 31, Supplement 1:409-417.
- Gattoliap, J-L. S. Knispel, B. Lods-Crozet, V. Lubini and M. Sartori. 2009. Aquatic macroinvertebrates of the Vallon de Nant (Western Swiss Alps). *Memoires de la Societe Vaudoise des Science Naturelles* 23: 129-144.
- Gaudes, A., J. Artigas, A. M. Romani, S. Sabater, and I. Munoz. 2009. Contribution of microbial and invertebrate communities to leaf litter colonization in a Mediterranean stream. *Journal of the North Benthological Society* 28: 34-43.

- Genkai-Kato, M. and H. Miyasaka. 2009. On the coexistence of three predatory stonefly species in a central Japanese stream. *Ecological Research* 24: 705-709.
- Graf W, A. Lorenz, J. M. Tierno de Figueroa, S. Lücke, M. J. López-Rodríguez, and C. Davies. 2009. Distribution and Ecological Preferences of European Freshwater Organisms. Volume 2: *Plecoptera*. Series Editors: A. Schmidt-Kloiber & D. Hering. PENSOFT Publishers. Sofia, Bulgaria. 262 pp.
- Gravelle, J. A., T. E. Link, J. R. Brogilio, and J. H. Braatne. 2009. Effects of timber harvest on aquatic macroinvertebrate community composition in a northern Idaho watershed. *Forest Science* 55: 352-366.
- Gray, D.P. 2009. A new species of *Zelandobius* (Plecoptera: Gripopterygidae: Antartoperlinae) from the upper Rangitata River, Canterbury, New Zealand. *New Zealand Journal of Marine and Freshwater Research* 43: 605-611.
- Grubbs, S. A. and A. L. Sheldon. 2009. *Leuctra pinhoti*, a new species of stonefly (Plecoptera: Leuctridae) from Alabama, U.S.A. *Illiesia* 5:195-198.
- Guerra-Garcia, J. F. and J. M. Tierno de Figueroa. 2009. What do caprellids (Crustacea: Amphipoda) feed on? *Marine Biology* 156: 1881-1890.
- Ham, S. A. 2009. *Nemoura phasianusa*, a new species of Nemouridae (Insecta: Plecoptera) from Korea. *Korean Journal of Systematic Zoology* 25: 95-98.
- Hassanin, A. 2006. Phylogeny of Arthropoda inferred from mitochondrial sequences: Strategies for limiting the misleading effects of multiple changes in pattern and rates of substitution. *Molecular Phylogenetics and Evolution* 38: 100-116.
- Heinz, K and P. Martin. 2009. Limnofaunistische Untersuchungen zur Typologie von Kleingewässern im Östlichen Hügelland Schleswig-Holsteins. [Limnofaunistic studies on the typology of small waterbodies in the Eastern hill country of Schleswig-Holstein]. Deutsche Gesellschaft für Limnologie (DGL), Erweiterte Zusammenfassungen der Jahrestagung 2008 (Konstanz); Hardegsen: 98-102 .
- Hrovat, M., G. Urbanič and I. Sivec. 2009. Community structure and distribution of Ephemeroptera and Plecoptera larvae in lowland karst rivers in Slovenia. *Aquatic Insects*, 31, Supplement 1:343-357.
- Huang, D. Y. and A. Nel. 2009. Oldest webspinners from the Middle Jurassic of Inner Mongolia, China (Insecta: Embiodea). *Zoological Journal of the Linnean Society* 156: 889-895.
- Hutchens, J. J., Jr., J. A. Schuldt, C. Richards, L. B. Johnson, G. E. Host, and D. H. Breneman. 2009. Multi-scale mechanistic indicators of Midwestern USA stream macroinvertebrates. *Ecological Indicators* 9: 1138-1150.
- Isobe Y, M. Yoshimura, and T. Oishi. 2008. Stonefly Eggs in the sandy shore and the ecological importance of an ovoid egg in a mountain stream. pp. 51-60 *In*: Hauer, F. R., J. A. Stanford and R. L. Newell (eds), *International Advances in the Ecology, Zoogeography and Systematics of Mayflies and Stoneflies*, UC Publications in Entomology, University of California Press, Berkeley, Los Angeles, London, X + 412 pp.
- Isobe, Y. and S. Uchida. 2009. Japanese species of the genus *Oyamia* (Plecoptera: Perlidae), with notes on *O. nigribasis* from Korea. *Aquatic Insects*, 31, Supplement 1:231-244.

- Iwasaki, Y., T. Kaga, K-I. Miyamoto, and H. Matsuda. 2009. Effects of heavy metals on riverine benthic macroinvertebrates assemblages with reference to potential food availability for drift-feeding fish. *Environmental Toxicology and Chemistry* 28: 354-363.
- Jacobsen, D. and K. P. Brodersen. 2008. Are altitudinal limits of equatorial stream insects reflected in their respiratory performance? *Freshwater Biology* 53: 2295-2308.
- Jähniq S. C., Q. Cai Q, D. N. Shah and D. Hering 2009. Entwicklung eines Gewässerbewertungssystems für die Region Yichang in China – Erste Ergebnisse [Development of an evaluation system for waters of the region Yichang in China – First results]. *Deutsche Gesellschaft für Limnologie (DGL), Erweiterte Zusammenfassungen der Jahrestagung 2008 (Konstanz)*; Hardegsen: 494-498.
- Jiang, W-X., Q-hua Cai, T. Tang, N-cheng Wu, X-cheng Fu, F-qing Li, and R-qui Liu. 2008. Spatial distribution of macroinvertebrates in Xiangxi River. *Yingyong Shengtai Xuebao* 19: 2443-2448.
- Kobayashi, S. and T. Kagaya. 2009. Colonization of leaf patches at topographically different locations by insect shredders in a small mountain stream. *Limnology* 10: 143-147.
- Kondratieff, B. C. and R. W. Baumann. 2009. A contribution to the knowledge of *Sweltsa exquisita* (Frison) and *S. occidens* (Frison) and description of a new species of *Sweltsa* from the northern Rocky Mountains, U. S. A. (Plecoptera: Chloroperlidae). *Illiesia* 5: 20-29.
- Kondratieff, B. C. and R. F. Kirchner. 2009. A new species in the *Sweltsa onkos* Complex (Plecoptera: Chloroperlidae). Pp. 295-300. *In*: S. M. Roble and J. C. Mitchell (eds). A lifetime of contributions to Myriapodology and the natural history of Virginia: a Festschrift in honor of Richard L. Hoffman's 80<sup>th</sup> birthday. Virginia Museum of Natural History Special Publication. Martinsville, Virginia. No 16.
- Kovács, T. and R. J. Godunko. 2008. Faunistical records of larvae of Ephemeroptera, Odonata and Plecoptera from the Zakarpats'ka Region, Ukraine. *Folia Historico Naturalia Musei Matraensis*, 32:87–91.
- Kovács, T. and D. Murányi. 2008. Taeniopterygidae Klapálek, 1905 species in Hungary (Plecoptera). *Folia Historico Naturalia Musei Matraensis*, 32: 103–113.
- Kovács, T. and D. Murányi. 2008. Data to the distribution of genus *Perlodes* in Hungary (Plecoptera: Perlodidae), *Folia Historico Naturalia Musei Matraensis* 32: 115–118.
- Kovács, T., A. Ambrus, P. Juhász, P. Olajos and G. Szilágyi. 2008. Records of Ephemeroptera and Plecoptera from Lithuania, with notes on aquatic arthropods. *Folia Historico Naturalia Musei Matraensis* 32:119-134.
- Kovács, T., R. J. Godunko, P. Juhász P, B. Kiss and Z. Müller. 2008. Quantitative records of larvae of Ephemeroptera, Odonata and Plecoptera from the Zakarpats'ka Region, Ukraine (2004, 2006). *Folia Historico Naturalia Musei Matraensis* 32: 135–147.
- Kozáčeková, Z., J. M. Tierno de Figueroa, M. J. López-Rodríguez, P. Beracko, and T. Derka. 2009. Life history of a population of *Protonemura intricata* (Ris, 2002) (Insecta, Plecoptera) in a constant temperature stream in Central Europe. *International Review of Hydrobiology* 94: 57-66.
- Krno, I. and M. Holubec. 2009. Effects of land use on stonefly bioassessment metrics. *Aquatic Insects*, 31, Supplement 1: 377-389.
- Küttner, R., J. Neumann, and M. Keitel. 2009. *Leuctra geniculata* (Stephens, 1836) - eine neue Steinfliegenart in Sachsen (Plecoptera, Leuctridae). [*Leuctra geniculata* (Stephens, 1836) – a new stonefly species in Saxony (Plecoptera, Leuctridae)]. *Entomologische Nachrichten und Berichte*, 53(1):52-53.

- Kreutzweiser, D. P., D. G. Thompson, and T. A. Scarr. 2009. Imidacloprid in leaves from systemically treated trees may inhibit litter breakdown by non-target invertebrates. *Ecotoxicology and Environmental Safety* 72: 1053-1057.
- Larsen, S. I. P. Vaughan, and S. J. Ormerod. 2009. Scale-dependant effects of fine sediments on temperate headwater invertebrates. *Freshwater Biology* 54: 203-219.
- Lenat, D. R., R. E. Zuellig, B. C. Kondratieff, and S. R. Beaty. 2009. Distribution of *Neoperla* (Plecoptera: Perlidae) in North Carolina, with new state records for three species. *Illiesia* 5: 164-168.
- Li, F. Q., Q. H. Cai, and J. K. Liu. 2009. Temperature-dependent growth and life cycle of *Nemoura sichuanensis* (Plecoptera: Nemouridae) in a Chinese Mountain stream. *International Review of Hydrobiology* 94: 595-608.
- Li, W. and D. Yang. 2009. Species of the genus *Sphaeronemoura* (Plecoptera: Nemouridae) from Continental China. *Zootaxa* 2004: 59-64.
- Li, W. and D. Yang. 2009. Synopsis of the genus *Capnia* (Plecoptera: Capniidae) from China. *Zootaxa* 2112: 47-52.
- Li, W. and D. Yang. 2009. A new species of the genus *Mesonemoura* (Plecoptera: Nemouridae) and a key to the males of species known from China. *Zootaxa* 2231: 62-68.
- Liu, Y. S., N. D. Sinitshenkova, and D. Ren. 2009. A revision of the Jurassic stonefly genera *Dobbertinopteryx* Ansoerge and *Karanemoura* Sinitshenkova (Insecta: Plecoptera), with the description of new species from the Dahugou locality, China. *Paleontological Journal* 43: 183-190.
- López-Rodriqez, M. J. and J. M. Tierno de Figueroa. 2009. First record of the male mating call in the genus *Tyrrhenoleuctra* Consiglio (Plecoptera: Leuctridae). *Entomological News* 120: 224-226.
- López-Rodríguez, M. J., J. M. Tierno de Figueroa, and J. Alba-Tercedor. 2009. Life history, feeding and secondary production of two Nemouroidea species (Plecoptera, Insecta) in a temporary stream of Southern Iberian Peninsula. *Fundamental and Applied Limnology, Archiv für Hydrobiologie* 175: 161-170.
- López-Rodriqez, M. J., J. M. Tierno de Figueroa, and J. Alba-Tercedor. 2009. Life history of two burrowing aquatic insects in southern Europe: *Leuctra geniculata* (Insecta: Plecoptera) and *Ephemera danica* (Insecta: Ephemeroptera). *Aquatic Insects* 31: 99-110.
- López-Rodríguez, M. J., J. M. Tierno de Figueroa, S. Fenoglio, T. Bo, and J. Alba-Tercedor J. 2009. Life strategies of three Perlodidae species (Plecoptera, Insecta) in a Mediterranean seasonal stream of Southern Europe. *Journal of the North American Benthological Society* 28: 611-625.
- Loskutova, O. A., L. A. Zhiltzova, and S. K. Charchesova. 2009. Morphological alterations of wings in isolated populations of *Arcynopteryx compacta* McL. (Plecoptera: Perlodidae) in the near-polar Ural. *Actual Problems of Ecology and Biodiversity Preservation in Russia. Special Issue. Articles Collection of the fourth all-Russia Scientific Conference dedicated to the 200-th Anniversary of Charles Darwin. North Ossetia-Alania, Vladikawkas, North-Ossetian State University.* pp 138-141.
- Loskutova, O. A. 2009. Drift of stoneflies in rivers of the European North of Russia. *Aquatic Insects*, 31, Supplement 1:419-427.

- Loskutova, O. A. 2009. Attempts to re-colonise water insects in German brooks. *Aquatic Insects*, 31, Supplement 1:429-441.
- Matsui, A. 2008. Effects of Oishi Dam (Sekikawa village, Niigata Prefecture, Japan) on downstream macroinvertebrate assemblages with particular focus on net-spinning caddisflies. *Ecology and Civil Engineering* 11: 175-182.
- Masese, F. O., P. O. Raburu, and M. Muchiri. 2009. A preliminary benthic macroinvertebrate index of biotic integrity (B-IBI) for monitoring the Moiben River, Lake Victoria Basin, Kenya. *African Journal of Aquatic Science* 34: 1-14.
- Masese, F. O., M. Muchiri, and P. O. Raburu. 2009. Macroinvertebrate assemblages as biological indicators of water quality in the Moiben River, Kenya. *African Journal of Aquatic Science* 34: 15-26.
- McCulloch, G. A., G. P. Wallis, and J. M. Waters. Do insects lose flight before they lose their wings? Population genetic structure in subalpine stoneflies. *Molecular Ecology* 18: 4073-4087.
- McNair, J. N. 2009. Two new methods for predicting effects of landcover-related stressors on stream biotic integrity at the catchment scale. *Proceedings of the Academy of Natural Sciences of Philadelphia* 158: 61-88.
- Meissner, K. A. Juntunen, B. Malmqvist, and T. Muotka. 2009. Predator-prey interactions in a variable environment: responses of a caddis larva and its black fly prey to variations in stream flow. *Annales Zoologici Fennici* 46: 193-204.
- Miyasaka, H. and M. Genkai-Kato. 2009. Shift between carnivory and omnivory in stream stonefly predators. *Ecological Research* 24: 11-19.
- Miyasaka, H. and M. Genkai-Kato. 2009. Seasonal change in the gut clearance rate of three stonefly species in a Japanese stream. *Ecological Research* 24: 231-234.
- Moya, C. C. Valdovinos, A. Moraga, F. Ramero, P. Debels, and A. Oyanedel 2009. Spatial distribution patterns of benthic macroinvertebrates assemblages in an Andean Patagonian fluvial system. *Revista Chilena de Historia Natural* 82: 425-442.
- Msyani, E. K., J. Lazaro, O. N. Castor, and O. A. Chambegga. 2009. Seasonal inventory and status of flying insects, in Kihansi Gorge, Tanzania. *African Journal of Ecology* 47: 267-275.
- Mulvihill, R. S., F. L. Newell, and S. C. Latta. 2008. Effects of acidification on the breeding ecology of a stream-dependent songbird, the Louisiana waterthrush (*Seiurus motacilla*). *Freshwater Biology* 53: 2158-2169.
- Myers, L. W. and B. C. Kondratieff. 2009. Descriptions of the nymphs of eastern North American species of *Cultus* (Plecoptera: Perlodidae). *Entomologica Americana* 115: 109-114.
- Nelson, C. H. 2009. Surface ultrastructure and evolution of tarsal attachment structures in Plecoptera (Arthropoda: Hexapoda). *Aquatic Insects*, 31, Supplement 1:523-545.
- Nelson, C. R. and R. W. Baumann. 2009. *Capnia shasta*, a new species in the Californica Group from northwestern California (Plecoptera, Capniidae). *Illiesia* 5:188-194.
- Patimar, R., H. Adineh, and M. J. Mahdavi. 2009. Life history of the western crested loach *Paracobitis malapterura* in the Zarrin-Gol River, east of the Elburz Mountains (Northern Iran). *Biologia (Bratislava)* 64: 350-355.



- Pautasso, M. and D. Fontaneto. 2008. A test of the species-people correlation for stream macro-invertebrates in European countries. *Ecological Applications* 18: 1842-1849.
- Pearson, R. and L. Boyero. 2009. Gradients in regional diversity of freshwater taxa. *Journal of the North American Benthological Society* 28: 504-514.
- Pedersen, M. L. and N. Friberg. 2009. Influence of disturbance on habitats and biological communities in lowland streams. *Fundamental and Applied Limnology* 174: 27-41.
- Pessacq, P. 2009. A new Gripopterygidae (Plecoptera) species from southern Patagonia. *Zootaxa* 2264: 51-57.
- Pessacq, P. 2009. Current knowledge of Patagonian Plecoptera. *Revista de la Sociedad Entomologica Argentina* 68: 169-175.
- Pestana, J. L. T., A. C. Alexander, J. M. Culp, D. J. Baird, A. J. Cessna, and A. M. V. M. Soares. 2009. Structural and functional responses of benthic macroinvertebrates to imidacloprid in outdoor stream mesocosms. *Environmental Pollution* 157: 2328-2334.
- Pick, C., S. Hagner-Holler, and T. Burmester. 2008. Molecular characterization of hemocyanin and hexamerin from the firebrat *Thermbia domestica* (Zygentoma). *Insect Biochemistry and Molecular Biology* 38: 977-983.
- Pick, C. M. Schneuer, and T. Burmester. 2009. The occurrence of hemocyanin in Hexapoda. *FEBS Journal* 276: 1930-1941.
- Piscart, C., R. Genoel, S. Doledec, E. Chauvet, and P. Marmonier. 2009. Effects of intense agricultural practices on heterotrophic processes in streams. *Environmental Pollution* 157: 1011-1018.
- Popiac, A., and I. Sivec. 2009. Diversity and distribution of stoneflies in the area of Plitvice Lakes National Park and along the Mediterranean River Cetina (Croatia). *Aquatic Insects*, 31, Supplement 1: 731-742.
- Popiac, A., and I. Sivec. 2009. First records of the alpine stonefly species *Protonemura julia* Nicolai, 1983. (Insecta, Plecoptera) in Croatia. *Natura Croatica* 18: 83-89.
- Progar, R. and A. R. Moldenke. 2009. Aquatic insect emergence from headwater streams flowing through regeneration and mature forests in western Oregon. *Journal of Freshwater Ecology* 24: 53-66.
- Purcell, A. H., D. W. Bressler, M. J. Paul, M. T. Barbour, E. T. Rankin, J. L. Carter, and V. H. Resh. 2009. Assessment tools for urban catchments: developing biological indicators based on benthic macroinvertebrates. *Journal of the American Water Resources Association* 45: 306-319.
- Rasmussen, J. J., N. Friberg, and S. E. Larsen. 2008. Impact of lambda-cyhalothrin on a macroinvertebrate assemblage in outdoor experimental channels: implications for ecosystem functioning. *Aquatic Toxicology* 90: 228-234.
- Redell, L. A., W. K. Gall, R. M. Ross, and D. S. Dropkin. 2009. Biology of the caddisfly *Oligostomis ocelligera* (Trichoptera: Phryganeidae) inhabiting acidic mine drainage in Pennsylvania. *Northeastern Naturalist* 16: 285-306.
- Ribeiro, J. M. F. and J. A. Rafael. 2009. Redescription of the species of *Anacroneuria* Klapálek known from Reserva Florestal Adolpho Ducke, Amazonas, Brazil with a neotype designation, and a key to adults males, Amazonas, Brazil. (Plecoptera, Perlidae). *Zootaxa* 2004: 1-15.

- Ribeiro, J. M. F., C. Magalhaes, J. A. Rafael, and A. L. Henriques. 2009. Catalogue of type specimens of the Collection of Invertebrates of Instituto Nacional de Pesquisas da Amazonia, Manaus, Brazil III. Hexapoda: Isoptera, Mantodea, Mecoptera, Orthoptera, Plecoptera, Trichoptera and Zoraptera. *Revista Brasileira de Entomologia* 53: 32-35.
- Roberts, L., G. Boardman, and R. Vosehell. 2009. Benthic macroinvertebrate susceptibility to trout farm effluents. *Water Environment Research* 81: 150-159.
- Rockwell, I. P. and R. L. Newell. 2009. Note on mortality of the emerging stonefly *Pteronarcys californica* on the Jocko River, Montana, USA. *Western North America Naturalist* 69: 264-266.
- Rościszewska, E. and R. Rzońca. 2009. The internal reproductive system of *Antarctoperlaria* (Plecoptera), with special reference to the organisation of the larval ovarioles. *Aquatic Insects*, 31, Supplement 1:565-575.
- Rupprecht, R. 2009. Attempts to re-colonise water insects in German brook. *Aquatic Insects*, 31, Supplement 1: 429-441.
- Sánchez-Montoya, M. M., M. L. Suarez, and M. R. Vidal-Abarca, et al.. 2009. Seasonal and interannual variability of macroinvertebrate reference communities and its influence on bioassessment in different Mediterranean stream types. *Fundamental and Applied Limnology* 174: 353-367.
- Sandberg, J. B. 2009. Vibrational communication (drumming) of the western Nearctic stonefly genus *Hesperoperla* (Plecoptera: Perlidae). *Illiesia* 5: 146-155.
- Schäffer, M., R. Ibsch, and D. Borchardt. 2009. Invertebrate Lebensgemeinschaften als Indikatoren für Landnutzungseffekte im Norden der Mongolei. [Invertebrate communities as indicators of effects of land use in the North of Mongolia]. *Deutsche Gesellschaft für Limnologie (DGL), Erweiterte Zusammenfassungen der Jahrestagung 2008 (Konstanz); Hardegsen: 308-312.*
- Sehmisch-Bartel, M., A. Meerheim, M. Zeidler, N. Kaschek, and E. I. Meyer. 2009. Makrozoobenthoszönosen eines temporären Fließgewässers der Paderborner Hochfläche: Besiedlungsstruktur und Anpassungsstrategien in der Alme. [Macrozoobenthic coenoses of a temporary running water course on the high plain of Paderborn: Structure of colonisation and adaptive strategies in the Alme river]. *Deutsche Gesellschaft für Limnologie (DGL), Erweiterte Zusammenfassungen der Jahrestagung 2008 (Konstanz); Hardegsen: 319-322.*
- Sarpola, M. J., R. K. Paasch, E. N. Mortensen, T. G. Dietterich, D. A. Lytle, A. R. Moldenke, and L. G. Shapiro. 2008. An aquatic insect imaging system to automate insect classification. *Transactions of the ASABE* 51: 2217-2225.
- Sharma, A., R. C. Sharma, and A. Anthwal. 2008. Surveying of aquatic insect diversity of Chandrabhaga River, Garhwal Himalayas. *Environmentalist* 28(4): 395-404.
- Shcherbakov, D. E., V. N. Makarkin, D. S. Aristov, and D. V. Vasilenko. 2009. Permian insects from the Russky Island, south Primorye. *Russian Entomological Journal* 18: 7-16.
- Sheldon, A.L. 2008. Scale and Hierarchy in the Ecology of Stoneflies. pp. 15-38. *In: Hauer, F. R., J. A. Stanford and R. L. Newell (eds), International Advances in the Ecology, Zoogeography and Systematics of Mayflies and Stoneflies, UC Publications in Entomology, University of California Press, Berkeley, Los Angeles, London, X + 412 pp.*
- Sheldon, A. L. and G. Theischinger. 2009. Stoneflies (Plecoptera) in a tropical Australian stream: diversity, distribution and seasonality. *Illiesia* 5: 40-50.

- Sheldon, A. L. and W. L. Warren, Jr. 2009. Filters and templates: stonefly (Plecoptera) richness in Ouachita Mountains streams, U.S.A. *Freshwater Biology* 54: 943-956.
- Silveri, L., J.M. Tierno de Figueroa, and B. Maiolini. 2008. Notes on the nymphal biology of *Nemoura mortoni* Ris 1902 (Plecoptera, Nemouridae) in a high altitude stream (Trentino, Italian Alps). *Zool. Baetica*, 19: 51-56.
- Silveri, L., J.M. Tierno de Figueroa, and B. Maiolini. 2009. Life cycle and nymphal feeding in the stonefly species *Chloroperla susemicheli* (Plecoptera: Chloroperlidae). *Entomologia Generalis* 32: 97-103.
- Sivec, I. and B. P. Stark. 2009. *Tominemoura*, a new stonefly genus from Sabah, East Malaysia (Plecoptera: Nemouridae). *Illiesia*: 199-203.
- Sivec, I. and B. P. Stark. 2009. Two new *Protonemura* species from Vietnam (Plecoptera: Nemouridae). *Illiesia* 5:204-207.
- Sinitshenkova, N. D. 2009. New stoneflies (Insecta: Perlida = Plecoptera) from Eocene Rovno amber, Ukraine. *Paleontological Journal* 43: 664-668.
- Sinitshenkova, N.D. and E. E. Perkovsky. 2009. The first find of stoneflies (Insecta, Perlida = Plecoptera) in Rovno Amber. *Vestnik Zoologii* 43: 216.
- Smith, B. J., P. E. Davies, and S. A. Munks. 2009. Changes in benthic macroinvertebrate communities in upper catchment streams across a gradient of catchment forest operation history. *Forest Ecology and Mangement* 257: 2166-2174.
- Song, M. Y., F. Leprieur, A. Thomas, S. Lek-Ang, T. S. Chon, and S. Lek. 2009. Impact of agricultural land use on aquatic insect assemblages in the Garonne River catchment (SW France). *Aquatic Ecology* 43: 999-1009.
- Staniczek, A.H. (ed.). 2009. International Perspectives in Mayfly and Stonefly Research. Proceedings of the 12th International Conference on Ephemeroptera and the 16th International Symposium on Plecoptera, Stuttgart, 2008. *Aquatic Insects*, 31, Supplement 1:1-747 + 5 unnumbered pages.
- Stark, B. P. and M. B. Hicks. 2009. New records of winter stoneflies (Plecoptera: Capniidae) in Mississippi. *Illiesia* 5: 80-84.
- Stark, B. P. and M. B. Hicks. 2009. The Taeniopterygidae of Mississippi (Insecta: Plecoptera). *Illiesia* 5: 85-98.
- Stark, B. P. and A. L. Sheldon. 2009. Records of Neoperlini (Plecoptera: Perlidae) from Brunei Darussalam and Sarawak, with descriptions of new *Phanoperla* Banks and *Neoperla* Needham species. *Illiesia* 5: 11-19.
- Stark, B. P. and I. Sivec. 2009. *Swelsta wui* and *Haploperla valentinae* (Plecoptera: Chloroperlidae), two stoneflies from Sichuan province, China. *Illiesia* 5: 156-163.
- Stark, B. P., C. Froehlich, and, M. del Carmen Zuniga 2009. South American stoneflies (Plecoptera). *Pensoft, Sofia-Moscow*. 2009: 1-154.
- Stark, J. D. and N. Phillips. 2009. Seasonal variability in the macroinvertebrate community index: are seasonal correlation factors required? *New Zealand Journal of Marine and Freshwater Research* 43: 867-882.

- Stefanovic, K. S., V. P. Nikolic B. P. Tubic BP, J. M. Tornovic, A. D. Atanackovic, V. M. Simic, and M. M. Paunovic. 2009. Aquatic macroinvertebrates of the Jablanica River, Serbia. *Archives of Biological Sciences* 61: 787-794.
- Stewart, K. W. 2009. Plecoptera (stoneflies). 2<sup>nd</sup> Edition. Pp. 810-813. *In: Encyclopedia of insects*. V. H. Resh and R. T. Carde (eds), Elsevier, Inc. , Amsterdam, Netherlands.
- Stewart, K. W. 2009. New descriptions of North American *Taenionema* larvae (Plecoptera: Taeniopterygidae). *Illiesia* 5: 128-145.
- Stewart, K. W. and N. H. Anderson. 2009. The life history and nymphal generic character development of *Sweltsa adamantea* Surdick (Plecoptera; Chloroperlidae) in an Oregon summer-dry headwater stream. *Transactions of the American Entomological Society*. 135: 161-173.
- Stewart, K.W. and N.H. Anderson. 2009. The life history and larval generic character development of *Malenka bifurcata* (Claassen, 1923) (Plecoptera: Nemouridae) in an Oregon summer-dry stream. *Aquatic Insects*, 31, Supplement 1:391-399.
- Stubbington, R., A. M. Greenwood, P. J. Wood, P. D. Armitage, J. Gunn, and A. L. Robertson. 2009. The response of perennial and temporary headwater stream invertebrate communities to hydrological extremes. *Hydrobiologia* 630: 299-312.
- Sullivan, S. M. P. and M. C. Watzin. 2008. Relating stream physical habitat condition and concordance of biotic productivity across multiple taxa. *Canadian Journal of Fisheries and Aquatic Sciences* 65: 2667-2677.
- Surenkhorloo, P. 2009. Updated species list of stoneflies (Plecoptera) of Mongolia. *Aquatic Insects*, 31, Supplement 1:707-720.
- Tamura, F., Y. Isobe, and T. Oishi. 2008. The Types and Distribution of setae on the larval legs of *Neoperla geniculata*. pp. 355-368. *In: Hauer, F. R., J. A. Stanford and R.L. Newell (eds), International Advances in the Ecology, Zoogeography, and Systematics of Mayflies and Stoneflies*. UC Publications in Entomology, University of California Press, Berkeley, Los Angeles, London, X + 412 pp.
- Tamura, F., Y. Isobe, and T. Oishi. 2009. A comparative study of the morphology and distribution of setae and hairs on the larval legs of two families (Perlodidae, Perlidae) of Japanese Plecoptera. *Aquatic Insects*, 31, Supplement 1:547-563.
- Teslenko, V. A. 2009. A new species of the stonefly genus *Alloperla* Banks (Plecoptera, Chloroperlidae) from the south of the Russian Far East. *Entomologicheskoe Obozrenie* 88: 106-110.
- Teslenko, V.A. 2009. Stoneflies (Plecoptera) of the Russian Far East: diversity and zoogeography. *Aquatic Insects*, 31, Supplement 1:693-706.
- Teslenko, V. A. and L. A. Zhiltzova. 2009. Keys to the stoneflies (Insecta, Plecoptera) of Russia and adjacent countries. Imagines and larvae. *Dal'nauka, Vladivostok*, 382 pp.; in Russian. <http://www.biosoil.ru/files/00008625.pdf>
- Theissinger, K. K., A. Feldheim and A. Seitz. 2009. Isolation and characterization of 11 polymorphic trinucleotide microsatellite markers in the stonefly *Arcynopteryx compacta* (Plecoptera: Perlodidae). *Molecular Ecology Resources* 9: 357-359.

- Tierno de Figueroa, J. M., J. M. Luzon-Ortega, and M. J. López-Rodríguez. 2009. First record of male drumming call of the genus *Capnioneura* Ris, 105 (Plecoptera; Capniidae). *Entomological Science* 12: 359-362.
- Tierno de Figueroa, J. M., T. Bo, M. J. López-Rodríguez, and S. Fenoglio. 2009. Life cycle of three stonefly species (Plecoptera) from an Apenninic stream (Italy), with the description of nymph of *Nemoura hesperiae*. *Annales de la Société Entomologique de France* 45: 339-343.
- Tierno de Figueroa, J. M., M. J. López-Rodríguez, T. Bo, and S. Fenoglio. 2009. Allometric versus isometric growth in European stoneflies (Plecoptera). *Journal of Freshwater Ecology* 24: 581-585.
- Tierno de Figueroa, J. M., M. J. López-Rodríguez, A. W. Lorenz, W. Graf, A. Schmidt-Kloiber, and D. Hering. 2009. Vulnerable taxa of European Plecoptera in the context of climate change. *Biodiversity and Conservation*, DOI 10.1007/s10531-009-9753-9.
- Tockner, K., U. Uehlinger, and C. T. Robinson (eds.). 2009. *Rivers of Europe*. Elsevier, Amsterdam, Netherlands. 700 pp.
- Tonkin, J. D. R. G. Death, and M. K. Joy 2009. Invertebrate drift patterns in a regulated river: dams, periphyton biomass or longitudinal patterns? *River Research and Applications* 25: 1219-1231.
- Vinçon, G. and D. Murányi. 2009a. Contribution to the knowledge of the *Protonemura corsicana* species group, with a revision of the North Africa species of the *P. talboti* subgroup (Plecoptera: Nemouridae). *Illiesia* 5: 51-79.
- Vinçon, G. and D. Murányi. 2009b. Revision of the *Rhabdiopteryx neglecta* species group (Plecoptera: Taeniopterygidae). *Aquatic Insects*, 31, Supplement 1: 203-218.
- Vieira, N. K. M., B. C. Kondratieff, D. E. Ruiters, and R. S. Durfee. 2009. The aquatic insects of the Valles Caldera National Preserve, Sandoval County, New Mexico, excluding Diptera, with notes on new state records. *Journal of the Kansas Entomological Society* 82: 250-262.
- Vinson, M. R. and E. C. Dinger. 2008. Aquatic invertebrates of the Grand Staircase-Escalante National Monument, Utah. *Southwestern Naturalist* 53: 374-384.
- Virtanen, R., J. Iimonen, L. Paasivirta, and T. Muotka. 2009. Community concordance between bryophyte and insect assemblages in boreal springs: a broad-scale study in isolated habitats. *Freshwater Biology* 54: 1651-1662.
- Völker, J., M. Funke and D. Borchardt. 2009. Einflüsse von Talsperren auf die ökologische Qualität und das hyporheische Interstitial von Fließgewässern am Beispiel der Weißeritz (Sachsen) und der Eder (Hessen) [Influence of impoundments on the ecological quality and the hyporheic interstitial of running waters, using the Weißeritz (Saxony) and the Eder (Hesse) as examples]. *Deutsche Gesellschaft für Limnologie (DGL), Erweiterte Zusammenfassungen der Jahrestagung 2008 (Konstanz), Hardegsen*: 86-91.
- Walters, K. R., Jr., T. Sformo, B. M. Barnes, and J. G. Durman. 2009. Freeze tolerance in an arctic Alaska stonefly. *Journal of Experimental Biology* 212: 305-312.
- Wang, Z.-J. and Y.-Z. Du. 2009. Four new species of the genus *Indonemoura* (Plecoptera: Nemouridae) from China. *Zootaxa* 1976: 56-62.
- Werner, S. and K. O. Rothhaupt. 2008. Effects of the invasive Asian clam *Corbicula fluminea* on benthic macroinvertebrate taxa in laboratory experiments. *Fundamental and Applied Limnology* 173: 145-152.

- Willett, M. R. and B. P. Stark. 2009. The *Alloperla leonarda* group of eastern North America, with SEM images of four out-group species (Plecoptera: Chloroperlidae). *Illiesia* 5: 108-127.
- Willkommen, J. 2009. The tergal and pleural wing base sclerites – homologous within the basal branches of Pterygota? *Aquatic Insects*, 31, Supplement 1:443-457.
- Winckler-Sosinski, L. T., T. C. L. Silveira, U. H. Schulz, and A. Schwarzbald. 2008. Interactions between benthic macroinvertebrates and fishes in a low order stream in Campos de Cima da Serra, RS, Brazil. *Brazilian Journal of Biology* 68: 695-701.
- Wright, I. A. and S. Burgin. 2009. Comparison of sewage and coal-mine wastes on stream macroinvertebrates within an otherwise clean upland catchment, Southeastern Australia. *Water Air and Soil Pollution* 204: 227-241.
- Yang, D., L. Shi, and W. Li. 2009. A new species of *Rhopalopssole* from Oriental China (Plecoptera: Leuctridae). *Transactions of the American Entomological Society* 135: 193-195.
- Yoshimura, M. 2008. Adult stonefly behavior before and after mating. pp. 79-88. *In*: Hauer, F. R., J. A. Stanford and R. L. Newell (eds), *International Advances in the Ecology, Zoogeography and Systematics of Mayflies and Stoneflies*, UC Publications in Entomology, University of California Press, Berkeley, Los Angeles, London, X + 412 pp.
- Yoshimura, M. 2009. Comparison of stream benthic invertebrate particularly stonefly assemblages in the temperate forest in Japan in relation to forest types. *Aquatic Insects* 31, Supplement 1: 369-376.
- Yoshimura, M. 2009. Age-related changes in the development of oocytes and testicular follicles after emergence in *Stavsolus japonica* (Plecoptera). *Physiological Entomology* 34: 39-45.
- Young, R. G. and K. J. Collier. 2009. Contrasting responses to catchment modification among a range of functional and structural indicators of river ecosystem health. *Freshwater Biology* 54: 2155-2170.
- Zhiltzova, L. A. 2006. A review of the stonefly family Taeniopterygidae (Plecoptera) of Russia and adjacent countries. *Entomologicheskoye Obozreniye* 85(3): 529-532. (In Russian).
- Zhiltzova, L. A. 2007. A review of the Chloroperlidae (Plecoptera) of Russia and adjacent lands. Problems of aquatic entomology of Russia and adjacent lands. pp.113-117 *In*: Third All-Russia Symposium on amphibiotic and aquatic insects. Voronezh State University. Venevitinovo Biological Educational and Scientific Center of VSU. (In Russian).
- Zhiltzova, L. A. 2007. Zoogeographical peculiarities of the stoneflies fauna of the group Systellognatha (Plecoptera) of the Russia and neighbouring countries. Abstract, pp. 113-114. *In*: Problems and Perspectives of General Entomology, Krasnodar. (In Russian).
- Zhiltzova, L. A. 2009. Supplement to the revision of the genus *Agnentina* Klapálek (Plecoptera, Perlidae) of the Eastern Palaearctic. *Entomologicheskoye Obozreniye* 88(2): 376-382. (In Russian, English summary).
- Zhiltzova, L. A. and S. K. Cherchesova. 2007. Description of the larva of a Caucasian stonefly, *Taeniopteryx caucasica* Zhiltzova (Plecoptera, Taeniopterygidae). *Entomologicheskoye Obozreniye* 86(1): 104-106. (In Russian, English summary).
- Zhiltzova, L. A. 2009. Zoogeographic features of the Systellognatha (Plecoptera) fauna of Russia and adjacent countries. *Aquatic Insects* 31, Supplement 1:721-726.



- Zhou, X, S. J. Adamowicz, L. M. Jacobus, R. E. DeWalt and P. D. N. Hebert. 2009. Towards a comprehensive barcode library for arctic life - Ephemeroptera, Plecoptera, and Trichoptera of Churchill, Manitoba, Canada. *Frontiers in Zoology* 6 (30): 1-9.
- Zivic, I., Z. Markovic and M. Zivic. 2009. Influence of a trout farm on macrozoobenthos communities of the Tresnjica River, Serbia. *Archives of Biological Sciences* 61: 483-492.
- Zúñiga, M. del Carmen, L. Dias, D. Martínez, G. Zabala and T. Bacca. 2009. The first record of *Claudioperla* Illies (Plecoptera: Gripopterygidae) from Colombia. *Aquatic Insects*, 31, Supplement 1:743-744.
- Zwick, P. 2009. Obituaries Wolfgang Joost (1937–2004), Teizi Kawai (1925–2005), Hans Mendl (1927–2004). *Aquatic Insects* 31, Supplement 1:15-18.
- Zwick, P. 2009. The Plecoptera – who are they? The problematic placement of stoneflies in the phylogenetic system of insects. *Aquatic Insects*, 31, Supplement 1:181-194.

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*Pteronarcys princeps* Banks, Mt. Shasta City Park, California, USA  
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