PERLA

Annual Newsletter and Bibliography of
The International Society of Plecopterologists

***Hesperoperla hoguei* Baumann and Stark**
Photograph by Bill P. Stark

PERLA NO. 26, 2008

Department of Bioagricultural Sciences
and Pest Management
Colorado State University
Fort Collins, Colorado 80523 USA

PERLA
Annual Newsletter and Bibliography of the International Society of Plecopterologists
Available on Request to the Managing Editor

TABLE OF CONTENTS

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 26 (2008) in one of the following ways, in order to be kept on the mailing list for PERLA 27 (2009): (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 26) 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.

ANNOUNCEMENTS

Third call for the International Joint Meeting on Ephemeroptera and Plecoptera 2008

Dear colleagues,

The XII International Conference on Ephemeroptera and the XVI International Symposium on Plecoptera is rapidly approaching. So far more than 100 participants (including 20 accompanying persons) from 30 countries are already registered for the meeting. The deadline for regular registration fees and submission of abstracts ends by of February 28, so there is not much time left! So I cordially invite all colleagues who want to attend the meeting to register soon and submit their abstracts by the end of February.

To do so please visit the conference website at http://www.jointmeeting08.naturkundemuseum-bw.de for further instructions. **All participants are also requested to pay their conference fees by the end of February to qualify for the regular conference fees.** Please make also sure to arrange your accommodation soon, the contingents we arranged with some hotels are only reserved until the end of February. There are only a few places left at the International Youth Hostel (4 beds, Feb 1st), but there are still 18 beds available at the International student hostel (Feb 1st). Please check the website for an update on availability.

There will be a major update of the conference site in March. All registered participants and those who have subscribed to the conference newsletter will receive a respective notifier by e-mail. Then you will be able to learn more about the specifications to prepare your poster or talk.

I look forward to meeting you in Stuttgart!

Arnold Staniczek
Staatliches Museum für Naturkunde
Abt. Entomologie
Rosenstein 1
D-70191 Stuttgart

Germany
phone ++49 (0) 711 8936 239
fax ++49 (0) 711 8936 100
e-mail: staniczek.smns@naturkundemuseum-bw.de
web: http://www.naturkundemuseum-bw.de/stuttgart/index.html

Participants from 30 countries will be in Stuttgart, Germany, June 8-14, 2008 for the XII International Conference on Ephemeroptera and the XVI International Symposium on Plecoptera.

The International Society of Plecopterologists have awarded more than US $3,400 to Tomas Ruginis, Lithuania, Maribet Gamboa, Venezuela, Olga Loskutova, Russia, and Giovany Guevara Cardona, Chile to attend our meeting in Stuttgart. Dr. John Brittain is thanked for his hard work in the evaluation process.

Below are instructions for persons interested in hosting future international conferences and symposia provided by Dr. John E. Brittain.

How to host a conference

Representatives from the International Conferences on Ephemeroptera and the International Society of Plecopterologists have established a set of guidelines for submitting proposals to host the joint conferences. These guidelines are:

Preliminary proposals

Preliminary proposals to host a conference may be submitted six years prior to the year of the proposed conference, but a final vote on the conference site will not be made until three years prior to the actual conference date.

Final proposals

1. Proposals should be submitted at least one month prior to the conference during which the proposal will be officially presented.
2. A copy of this proposal should be sent to the chair of each committee – International Conference for Ephemeroptera (Michel Sartori, michel.sartori@vd.ch) and the International Society of Plecopterologists (John Brittain, j.e.brittain@nhm.uio.no).
3. Proposal should be submitted by e-mail. This facilitates distribution of the proposal to the members of the two committees.
4. Proposals should contain detailed information regarding plans to host the conference.

Ninth North American Plecoptera Symposium at Sagehen Creek Field Station, California June 2009

Dr. William D. Shepard
Essig Museum of Entomology
201 Wellman Hall
University of California
Berkeley, California 94720 USA
william.shepard@CSUS.edu

The **Ninth North American Plecoptera Symposium** will be held at the Sagehen Creek Field Station (Sagehen), in the Sierra Nevada of California during the last half of June 2009. This is the site of field collecting during the first NAPS meeting, 26 years ago. Sagehen is in the Tahoe National Forest, on the eastern slope of the northern Sierra Nevada, 20 mi north of Lake Tahoe and 8.4 mi north of Truckee, California. Sagehen Creek runs through the station grounds, and it is **FULL** of stoneflies. This is the site of a long study on stonefly emergence in the mid-late 1960s by Andy Sheldon. Collecting will be allowed in the Sagehen Creek during the off-hours of the meeting, and collecting is good in many nearby areas. One afternoon will be available for individual collecting during the meeting, as done previously.

The field station is currently undergoing renovation so information on housing on the website is generally not reflective of conditions to be available in 2009. For instance, by then all housing will be propane heated. Freezing temperatures have been recorded every day of the year, so be prepared for cold weather. However, most summer days are quite nice and often very warm. Parking is very limited so carpooling is encouraged.

Those flying will want to consider arriving in Reno, Sacramento, Oakland or San Francisco. Flight costs vary greatly depending on departure and arrival points, so check all of these airports for arrival potentials. There will be no shuttle to Sagehen. There are no recreation activities at the station, except for hiking, birding, etc. However, numerous types of recreation are available before or after the meeting in surrounding areas such as Lake Tahoe, Reno, Sacramento and the San Francisco Bay area. These same areas offer outstanding collecting opportunities as well.

The meeting dates have not yet been selected due to considering other activities at Sagehen. But, they will involve 3-4 days during the last half of June 2009. Currently the approximate cost will be $50.00 per day, covering room, food and registration. The meeting is sponsored by the Essig Museum of Entomology at the University of California, Berkeley. Co-leaders are Bill Shepard (logistics) and Andy Sheldon (program). Information on Sagehen can be obtained at http://sagehen.berkeley.edu. I recommend the "Information Sheet" and the "Sagehen Creek Field Station (PDF)". Other material is also available, so if you are thinking about conducting research there, investigate further.

Please send a notice of Intent to Attend, with an APPROXIMATE number of attendees, to Bill Shepard at william.shepard@CSUS.edu. Those responding will be sent registration material later. No housing will be assigned until close to the meeting time due to ongoing changes. However, most beds are singles. At a later date there will also be a Request for Abstracts sent out. There will be an additional notice of the meeting in the PERLA 27, 2009 but it is expected to be so close to the actual meeting that the short time will potentially hamper making plans for attending.

BioBlitz Needs Volunteers

In 2008, a BioBlitz will take place in the Santa Monica Mountains National Recreation Area, California, U.S.A. sponsored by National Geographic and the National Park Service in collaboration with Santa Monica Mountains Conservancy and California State Parks. Registration for volunteer scientists is now open. It will begin May 30, 2008. If interested contact BioBlitz@ngs.org to be notified when online registration begins. There will be lots of good opportunities to collect aquatic insects.

Member News

PETER ZWICK AWARDED THE 2007 ERNST-JÜNGER-Prize for Entomology

Named after writer and entomologist ERNST JÜNGER, this prestigious German entomological award was presented to Prof. Dr. Peter Zwick in September 2007 at Schloß Wilflingen, Germany, in honor for his outstanding entomological research. The Baden-Württemberg Federal Minister of Science, PETER FRANKENBERG, honored PETER ZWICK as "a scientist whose entomological life work is characterized by its outstanding

excellence and extraordinary diversity, thus receiving highest reputation and esteem worldwide." PETER ZWICK was one the first German entomologists to realize the relevance of WILLI HENNIG'S modern approach to systematics. He consequently adopted the principles of phylogenetic systematics in his own work and thereby helped to propel the worldwide acceptance of HENNING'S modern approach to phylogeny. PETER ZWICK's monograph "Plecoptera" was published in 1980 and is to date referred as milestone in the research of stoneflies. The high quality of PETER ZWICK's work became obvious when his conclusions regarding the phylogeny of stoneflies became fully confirmed by recent molecular analyses. Peter Zwick is not only known as specialist in Plecoptera. He has also done numerous revisions of other aquatic insect groups including the Blephariceridae (Diptera).

PETER ZWICK retired last year as head of the Limnologische Fluß-Station in Schlitz. Over the past 37 years, while serving on the Max-Planck-Institut für Limnologie, ZWICK has published over 230 scientific articles. Under his guidance the Breitenbach, a small creek running across the of the field station, became one of the best-known streams, as it was the object of basic research on the ecology of rhitral ecosystems. For more than 25 years PETER ZWICK also published the international scientific journal "Aquatic Insects" as well as the insect volumes of "Süßwasserfauna von Mitteleuropa."

Submitted by Dr. Arnold Staniczek

Additionally Prof. Zwick was also recently honored by having five patronyms proposed in a single paper: Stark, Bill P. and Ignac Sivec. 2008. **New Stoneflies (Plecoptera) from Asia.** *Illiesia* 2008 4(1): 1-10. ***Kamimuria zwick****i* sp. n. and ***Neoperla peterzwicki*** sp. n. are described from specimens collected in South Korea and East Kalimantan, Indonesia respectively, ***Agnetina zwicki*** sp. n. from Sichuan, China, *Neoperla schlitz* from Kerala State, India, and ***Haploperla zwicki*** sp. n. and ***Isoperla peterzwicki*** sp. n. are described from Thai specimens. Each species is compared with related congeners and a provisional key for males of the *Neoperla borneensis* species subgroup is provided.

Dr. R. E. DeWalt, Illinois Natural History Survey, Illinois, USA

DeWalt, R. E[1], S. A. Grubbs[2], Y. Cao[1], J. Heilveil[3]. Stoneflies in the Middle Midwest, Deviation from Historical Expectations, Contemporary Risks, and Phylogeography of a Rapidly Changing Fauna**.** [1]Illinois Natural History Survey, 1816 S Oak St., Champaign, IL, 61820. [2]Western Kentucky University, Biological Sciences, Bowling Green, KY 42101. [3]State University of New York, College at Oneonta, Oneonta, NY 13820.

Since late 2005, the authors have been investigating the status of stoneflies in the Midwest to determine if the devastating losses seen in Illinois are representative of areas with similar glacial and cultural history. Changes in the assemblage are being studied at two scales: local and regional. Up to 30 historically well-sampled sites will be compared head-to-head with recent efforts. The regional approach will use diffuse museum specimen data to reconstruct the historical assemblage. Modeling of natural occurrence probabilities will be done using presence/absence (using other species records as negatives) data and landscape variables that have been found to explain stonefly distributions in the past. These models will generate "expectations" for species where enough data are available. Seasonal data will be collected from a large number of least

impacted streams in the Midwest, USA and Canada to yield natural occurrence probabilities from RIVPACS type models. Cumulative probabilities will yield species richness expectations. Several high quality sites and a large number of randomly chosen sites will be sampled to test the model, yielding "observed" values. The ratio of observed/expected species richness will provide an index of "assemblage intactness" each site. Molecular phylogeography using new specimens of several species of *Allocapnia* and other more highly vagile stoneflies will determine post-glacial dispersion of these species across the Midwest, testing the hypotheses of Herb Ross and Bill Ricker and measuring the effect of dispersal ability on the types of pathways taken northward. A resubmission of an National Science Foundation Biotic Surveys & Inventory proposal in January of 2008 asks for funding to conduct this work over a 3-yr period. The proposed funds will support a PhD student at the University of Illinois, a MS student at Western Kentucky University, and the molecular work in New York. Preliminary results demonstrate great losses of Perlidae and some Perlodidae with slow single and multi-year life cycles.

L. Fennema[1] & R. E. DeWalt[2]. Historic Assemblage, Range Loss and Extirpation of *Acroneuria* Stoneflies in Illinois. [1]University of Illinois, Department of Entomology, Champaign, IL 61820. [2]Illinois Natural History Survey, 1816 S Oak St., Champaign, IL, 61820.

Historic *Acroneuria* (Plecoptera: Perlidae) specimens from the Illinois Natural History Survey have been re-evaluated and their taxonomy updated. The assemblage consisted of six species: *Acroneuria abnormis, A. evoluta*, and *A. perplexa* originally inhabited the largest streams, including the Mississippi and Ohio rivers. *Acroneuria internata, A. frisoni,* and *A. filicis* inhabited medium to small rivers and sometimes occurred in streams <5 m wetted width. Extirpations include *A. internata* and *A. perplexa*, while all other species have experienced severe range reductions. *Acroneuria frisoni* was widespread in Illinois, occupying nearly 46,000 km^2 area. Today it occupies around 900 km^2. Distances between historic locations and nearest known populations for all these species range from 100 to 300 km. Recolonization must overcome dispersal corridors that consist of unsuitable habitat and poor water quality. We are working on a scheme to reintroduce *A. frisoni* to central Illinois. Re-evaluation of the distribution of these species allows Illinois to add them to a list of species in need of conservation and allows aquatic biologists to know the extent of loss from pre-settlement times. A manuscript is nearly ready for publication.

Dennis Heimdal, University of Iowa Hygienic Laboratory, Iowa City, Iowa.

Research Project: The reintroduction of stoneflies to a previously channelized spring run, that was recently restored in northeast Iowa, with Dr. Mike Osterholm, Luther College.

Currently no Plecoptera have been found in the spring during summer and fall sampling. Additional sampling will be done through the winter, spring, and early summer to determine if any populations are present. If no populations are found, stoneflies from nearby springs will be reintroduced to see if viable populations can be established.

Ian McLellan, The joint paper by Peter Zwick and I on South American Gripopterygidae has finally been published. I am still working on new species of New Zealand notonemourids, gripopterygids, a eustheniid and South American gripopterygids and identifying stoneflies for various institutions through out New Zealand. A paper on additions to *Zelandobius* (Antarctoperlinae) has just been published in Illiesia.
Otago University Ph.D student Graham McCulloch is constructing a DNA based phylogeny of New Zealand stoneflies and so far his phylogeny is similar to the present NZ morphological phylogeny.
The website on New Zealand stoneflies which Stephen Pawson and I are constructing is nearing completion.
http://entdocs.landcareresearch.co.nz/WebForms/SearchForm.aspx an interesting website that has appeared recently is a full text searchable interface to the Bibliography of New Zealand Entomology.

Dr. Ken W. Stewart, University of North Texas, Denton, Texas.

1. A manuscript with co-author N.H. Anderson on description of the nymphs of the nemourids *Soyedina producta*, *Ostrocerca dimicki* and *Malenka bifurcata* has been submitted to Transactions of theAmerican Entomological Society.
2. A manuscript on the life history and development of nymph generic characters of *Sweltsa adamantea* from an Oregon summer-dry stream is in preparation with N.H. Anderson. Data are from a 15-year project collecting adults in emergence traps and nymphs, monthly.
3. Ken visited Boris Kondratieff's lab last summer to examine and borrow nymphs of *Megarcys* species; this to begin a study with Boris with the goal of comparatively describing and developing an illustrated key to nymphs of all 5 North American species.
4. A project with Bill Stark to correlate and describe additional nymphs of *Sweltsa* is well underway.
5. The 2nd Edition of Encyclopedia of Insects, with Ken's contribution chapter on Plecoptera is scheduled for publication in 2008.
6. There is continuing progress on a study of the stoneflies of Nunavut with Donna Giberson of the University of Prince Edward Island, on additions to the stoneflies of Alaska with Dick Baumann, and new species of California *Capnia* with Dick Baumann and Riley Nelson.
7. A manuscript by Jane Earle and Ken on describing the nymph of *Strophopteryx appalachia* and a key to *Strophopteryx* nymphs has been accepted for Proceedings of the Entomological Society of Washington.

Dennis Stradner, Steven Weisss & Wolfram Graf

A molecular (mtDNA) phylogeny of the genus *Siphonoperla* Zwick, 1967 (Chloroperlidae)
We are investigating variation in the mtDNA COI gene fragment across the genus *Siphonoperla*. To date, there are eleven described species in the genus, as well as a number of subspecies. The genus ranges from the Atlas Mountains of North Africa to Armenia, with most species occurring in Europe. Our data support the recent description

of a new micro-endemic in the South Eastern Alps of Austria (*S. ottomoogi*), and despite its morphological resemblance to *S. montana*, show that it is very distantly related. Sequence diversity among the widely distributed *S. torrentium*-complex is very high, and together with clear geographic structure suggests that this lineage may contain more than one species. To our knowledge, this is the first phylogenetic study of European Plecoptera and new insights are expected in terms of hypotheses concerning the origin of alpine taxa and their distributional response to the ice ages.

Robert Zuellig and B. C. Kondratieff

Continuing studies of *Perlesta* in the eastern U.S. has indicated numerous undescribed populations. Special efforts are being made to collect fresh material including gravid females. Additionally, a publication is approaching submission on the stoneflies of Missouri.

ILLIESIA, International Journal of Stonefly Research, is entering its fourth year of publication. Volume 3 (2007) includes 18 articles can be accessed and downloaded without cost from the website: http://www2.pms-lj.si/illiesia/
Editors, Ignac Sivec and Bill Stark invite you to consider **Illiesia** as an outlet for your stonefly research.

Article:

Modoc County, California Stoneflies (Plecoptera)

Bill P. Stark[1], Boris C. Kondratieff[2] & Richard W. Baumann[3]

[1]Department of Biology, Mississippi College, Clinton, Mississippi, 39058
[2]Department of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, Colorado, 80523
[3]Department of Biology, 322 M.L. Bean Museum, Brigham Young University, Provo, Utah, 84602

Abstract

By virtue of its remote location in the extreme northeastern corner of California, Modoc County (Map) remains as one of the most infrequent areas collected for stoneflies in the state. Jewett (1960) listed only *Zapada oregonensis* (Claassen) and *Isoperla fulva* Claassen from a single 1946 collection made by W.F. Barr and H.P. Chandler at Eagleville, Stark & Nelson (1994) included a single record of *Yoraperla nigrisoma* (Banks) from a 1967 collection made 8 miles north of Fandango Pass on Willow Creek by E. Evans, and Stanger & Baumann (1993) gave two records of *Taenionema pallidum* from the Buck Creek Ranger Station and from 6 miles northwest of Cedarville. Only 12 individual stoneflies are included among these records.

Most of the western 2/3 of the county is incorporated into the Modoc National Forest where water management practices have centered on reservoir construction, but in the eastern third of the county a narrow north-south corridor of national forest and wilderness extends along the Warner Mountains from northern Lassen County into Oregon. Eagle Peak (elevation 3,015 m) in the South Warner Wilderness is the highest point in this range and two passes, Fandango Pass (elevation 1859 m) and Cedar Pass (elevation 1935 m) provide access to streams at higher elevations in the Warners. In this report results of a survey made in the northern half of the Warner Range on May 21, 1998 by Stark and three colleagues, C.R. Nelson, S.W. Szczytko and I. Sivec at six sites; a short trip in July 1998 taken by R. W. Baumann and R. D. Call yielded specimens from two sites; and a more extensive survey on 22-24 May 2007 by B.C. Kondratieff and R.W. Baumann includes 16 sites also listed in Table 1.

Table 1. Modoc Co., California sites surveyed for stoneflies. Sites 1-6 were surveyed May 21, 1998, sites 7-24 were surveyed 22-24 May 2007, and sites 25-26 on 30 July 1998.

Stream	Road	Location
1. New Pine Cr.	Hwy 2	1 mile east Hwy 395
2. Willow Cr.	crossroad	0.1 mile south CR 9, below Buck Cr.
3. South Fk. Davis Cr.	CR 30	3.1 mile east Hwy 395
4. trib. S.Fk. Davis Cr.	CR 30	3.2 mile east Hwy 395
5. Cedar Cr.	off Hwy 299	east of Cedar Pass
6. Thomas Cr.	off Hwy 299	1 mile west Cedar Pass
7. Middle Fk. Fitzhugh Cr.	CR 40	north of CR 24
8. Mill Cr.	---	Mill Cr. Falls Campgnd.
9. Rush Cr.	---	Upper Rush Cr. Campgnd.
10. Soup Cr.	---	below Soup Springs Campgnd.
11. Thomas Cr.	Hwy 299	Cedar Pass
12. South Fk. Pine Cr.	FR 5	---
13. Unnamed stream	off Hwy 299	below Stough Reservoir Campgnd
14. trib. Joseph Cr.	CR 118	Joseph Creek Basin
15. Harvey Cr.	---	north Coyote Creek Rd
16. South Fk. Pit R.	Hwy 64	east of Likely
17. Lassen Cr.	Rt 30	west of Fandango
18. South Fk. Parker Cr.	FR 31	---
19. North Fk. Pit R.	Hwy 395	---
20. Rush Cr. springs	---	Upper Rush Cr. Campgnd.
21. Rush Cr.	C6	Upper Rush Cr.
22. Soup Spring	---	Soup Spring Campgnd.
23. Johnson Cr.	off Hwy 299	---
24. Horse Head Spring	off Hwy 299	---
25. seep, Stough Campground	off Hwy 299	---
26. Van Riper Spring S of Eagleville	Rd 42	---

Results

A minimum of 32 species of stoneflies were collected at the 26 sites listed in Table 1. The following list includes sites where each respective species was collected. Site numbers and locality data are given in Table 1.

Capniidae:

Eucapnopsis brevicauda Claassen: Present at 15 sites, this is the second most common stonefly in the survey. 104 males and 151 females were collected.

Capnia gracilaria Claassen: 25 males and 22 females were taken at site 5.

Capnia sp.: 34 unidentified females were collected from sites 2, 3, 6, 7, 8, 12, 13, and 14.

Leuctridae:

Moselia infuscata (Claassen): 25 males, 22 females, and 2 nymphs were taken from sites 9, 10, 12, and 15.

Paraleuctra occidentalis (Banks): 16 males and 21 females were taken from sites 1, 3, 4, 7, 12, 13, and 14.

Paraleuctra vershina Gaufin & Ricker: 162 males and 119 females collected at sites 2, 8, 9, 10, and 24.

Perlomyia collaris Banks: 6 males and 4 females were collected at sites 6, 8, and 17.

Nemouridae:

Malenka depressa (Banks): 44 males and 39 females were taken at sites 1, 10, 15, 20, 21, 24, 25, and 26.

Malenka sp.: 1 male of a possible new species was collected at site 13.

Prostoia besametsa (Ricker): 23 males and 57 females were found with collections made at sites 1, 3, 4, 5, 6, 12, and 18.

Podmosta delicatula (Claassen): 11 males and 18 females were taken at sites 2, 6, 11, 15, 17, and 18.

Soyedina sp.: A single female specimen was taken in a seep at site 1.

Visoka cataractae (Neave): 2 females were taken from site 3.

Zapada cinctipes (Banks): 5 females were taken at sites 8 and 10.

Zapada frigida (Claassen): 1 male and 1 female were taken at site 1.

Zapada oregonensis (Claassen): 83 males and 49 females were collected from sites 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13 and 15.

Zapada sp.: 2 unidentified females were taken at site 18.

Taeniopterygidae:

Doddsia occidentalis (Banks): 1 female at site 3.

Oemopteryx vanduzeea (Claassen): 2 males were taken at site 23.

Taenionema pallidum (Banks): 33 males and 54 females were taken from sites 1, 2, 6, 11, 17, 18, and 19.

Chloroperlidae:

Paraperla frontalis (Banks): 1 female and an exuviae were taken at sites 8 and 9.

Sweltsa coloradensis (Banks): 32 males and 2 females were collected at sites 9 and 15. Unidentified *Sweltsa* nymphs, possibly of this species, were taken at sites 10 and 17.

Peltoperlidae:

Sierraperla cora (Needham & Smith): 5 males, 10 female, and 7 nymphs were collected from sites 3, 5, 7, 9, 14, and 21.

Yoraperla nigrisoma (Banks): 72 males, 22 females, and 22 nymphs were taken at sites 4, 6, 7, 9, 10, 13, 14, 15, 20, and 22.

Perlidae:

Calineuria californica (Banks): 8 nymphs were taken at sites 7, 8, 9, 10, and 11.

Doroneuria baumanni Stark & Gaufin: 11 nymphs were taken at sites 3 and 6.

Hesperoperla pacifica (Banks): 1 female was taken at site 9.

Perlodidae:

Diura knowltoni (Frison): 1 female was taken at site 6.

Isoperla marmorata Needham & Claassen: 34 males and 64 females were taken at sites 9, 15, 16, 19, and 21.

Isoperla quinquepunctata (Banks): 6 males and 1 female were taken at site 19.

Skwala curvata (Hanson): 7 males and 6 females were taken at sites 8, 12, and 18.

Pteronarcyidae:

Pteronarcys princeps Banks: 1 male, 2 females and 1 nymph were taken at sites 9 and 21.

Discussion

Records are given for 32 species of stoneflies (4 of these identified only to genus level) from 26 localities in Modoc County, California. All but three of these (*Taenionema pallidum, Yoraperla nigrisoma, Zapada oregonensis*) represent new county records, however, none of the species were unexpected for this region.

Literature Cited

Jewett, S.G. 1960. The stoneflies (Plecoptera) of California. Bull. Calif. Ins. Surv. 6:125-177.

Stanger, J. & R.W. Baumann. 1993. A revision of the stonefly genus *Taenionema* (Plecoptera: Taeniopterygidae). Trans. Am. Entomol. Soc. 119:171-229.

Stark, B.P. & C.R. Nelson. 1994. Systematics, phylogeny and zoogeography of genus *Yoraperla* (Plecoptera: Peltoperlidae). Entomol. Scand. 25:241-273.

Map of Warner Mountains in Modoc County, California, USA.

RECENT PLECOPTERA LITERATURE (CALENDAR YEAR 2007 AND EARLIER). Papers made available after 1 February 2008 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 providing additions to this present list.

Andrahennadi, R. M. Wayland, and I. J. Pickering. 2007. Speciation of selenium in stream insects using x-ray absorption spectroscopy. Environmental Science and Technology 41(22): 7683-7687.

Baumann, R. W. and J. J. Lee. 2007. *Paracapnia humboldta* (Plecoptera: Capniidae), a new winter stonefly from Northern California, U.S.A. Illiesia 3(3): 17-9.

Baumann, R. W. and J. J. Lee. 2007. Discovery of a large population of the rare winter stonefly *Isocapnia mogila* Ricker in the Mad River, California (Plecoptera, Capniidae). Western North American Naturalist 67(4): 609-610.

Baumann, R. W. and C. R. Nelson. 2007. *Taenionema jeanae,* a new species of stonefly from southern California (Plecoptera: Taeniopterygidae). Illiesia 3(8): 174-177.

Baumann, R. W. and D.S. Potter 2007. What is *Bolshecapnia sasquatchi* Ricker? Plus a new species of *Bolshecapnia* from Montana (Plecoptera: Capniidae). Illiesia, 3(15):157-162.

Bellstedt, R. 2007. Plecoptera. p. 23 in: Nationalpark Hainich Artenbericht 2007 Tiere, Pflanzen und Pilze im Nationalpark Hainich. Kenntnisstand zum 31.12.2006. [Plecoptera, p. 23 in: Hainich National Park Species Report 2007 Animal, plants and fungi in the Hainich National Park. State of knowledge as of 31.12.2006.] Freistaat Thüringen, Bad Langensalza, Febr. 2007, 126 pp.; www.nationalpark-hainich.de

Beutel, R.G. and S. N. Gorb. 2006. A revised interpretation of the evolution of attachment structures in Hexapoda with special emphasis on Mantophasmatodea. Arthropod Systematics and Phylogeny 64(1): 3-25.

Beutel, R. G. 2005: 7.4. Amphizoidae LeConte, 1853. *In*: K. Dettner and R. A. B. Leschen (volume editors) Coleoptera, Beetles. Volume 1: Morphology and Systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim). *In*: N. P. Kristensen and R. G. Beutel (series eds) Handbuch der Zoologie. Walter de Gruyter, Berlin, S. 81-85.

Bispo, P. C. and C. G. Froehlich. 2007. Stoneflies (Plecoptera) from northern Goiás State, central Brazil: new record of *Kempnyia oliveirai* (Perlidae) and a new species of *Tupiperla* (Gripopterygidae). Aquatic Insects 29(3): 213-217.

Bispo, P. C. and L. G. Oliveira. 2007. Diversity and structure of Ephemeroptera, Plecoptera and Trichoptera (Insecta) assemblages from riffles in mountain streams of Central Brazil. Revista Brasileira de Zoologia 24(2): 283-93.

Bo, T., S. Fenoglio, and G. Malacarne. 2007. Diet of *Dinocras cephalotes* and *Perla marginata* (Plecoptera:Perlidae) in an Apennine stream (northwest Italy). Canadian Entomologist 139(3): 358-364.

Bonada, N., M. Rieradevall, and N. Prat. 2007. Macroinvertebrate community structure and biological traits related to flow permanence in a Mediterranean river network. Hydrobiologia 589: 91-106.

Bottorff, R. L. 2007. *Cosumnoperla sequoia*, a new species of stonefly from the Sierra Nevada, California (Plecoptera: Perlodidae: Isoperlinae). Illiesia 3(6): 46-52.

Bottorff, R. L., and L. D. Bottorff. 2007. Phenology and diversity of adult stoneflies (Plecoptera) of a small coastal stream, California. Illiesia 3(1): 1-9.

Boukal, D. S, J. Klecka, and T. Soldan. 2006. Aquatic insects of the Malse River in the environs of Ceske Budejovice. Sbornik Jihoceskeho Muzea v Ceskych Budejovicich Prirodni Vedy 46: 229-234.

Brameshuber, S., S. Langmaier, and R.A. Patzner. 2006. Macrozoobenthos investigations on a regulated and revitalized brook section in the city area of Salzburg. Linzer Biologische Beitraege 38(2): 1221-1232.

Brown, L. E., D. M. Hannah, and, A. M. Milner. 2007. Vulnerability of alpine stream biodiversity to shrinking glaciers and snowpacks. Global Change Biology 13(5): 958-66.

Brown, L. E., A. M. Milner, and D. M. Hannah. 2007. Groundwater influence on alpine stream ecosystems. Freshwater Biology 52(5): 878-90.

Buckup, L., A. R. Bueno, G. Bond-Buckup, M. Casagrande, F. Majolo. 2007. The benthic macroinvertebrate fauna of highland streams in southern Brazil: Composition, diversity and structure. Revista Brasileira de Zoologia 24(2): 294-301.

Burgmer, T., H. Hillebrand, and M. Pfenninger. 2007. Effekte globaler Erwärmung auf aquatische Gemeinschaften: Signale des Klimawandels in Zeitreihen. [Effects of global warming on aquatic comunities: Signals of climate change in time series]. Deutsche Gesellschaft für Limnologie (DGL) – Tagungsbericht 2006 (Dresden), Werder 2007: 66-70.

Cao, T. K. T. and .Y. J. Bae. 2007. New species of *Acroneuria* (Plecoptera: Perlidae: Acroneuriinae) from tropical Southeast Asia. Journal of the Kansas Entomological Society 80(3): 192-204.

Cao, T. K. T., S. Ah Ham, and Y. J. Bae. 2007. Description of three new species of *Neoperla* (Plecoptera: Perlidae) and a historical review of tropical southeast Asian Perlidae. Zootaxa 1453(23): 41-54.

Cherchesova, S., L. Zhiltzova, and M. Shioloshvili. 2007. Description of the larva of the stonefly *Brachyptera transcaucasica* Zhiltzova, 1956 (Plecoptera, Taeniopterygidae). Entomological Review 87(5): 545-546.

Connolly, N. M. and R. G. Pearson. 2007. The effect of fine sedimentation on tropical stream macroinvertebrate assemblages: a comparison using flow-through artificial stream channels and recirculating mesocosms. Hydrobiologia 592: 423-438.

Cranston, P. S. and B. McKie. 2006. Aquatic wood - an insect perspective. U S Forest Service General Technical Report SRS 93: 9-14.

Crisci-Bispo, V. L., P. C. Bispo, and C.G. Froehlich. 2007. Ephemeroptera, Plecoptera and Trichoptera assemblages in two Atlantic rainforest streams, southeastern Brazil. Revista Brasileira de Zoologia 24(2): 312-8.

Danks, H.V. 2007. How aquatic insects live in cold climates. Canadian Entomologist 139(4): 443-471.

DeWalt, R. E., L. M. Jacobus, and W. P. McCafferty. 2007. Summer Ephemeroptera, Plecoptera, and Trichoptera from southwestern drainages in Great Smoky Mountains National Park, with additional Ephemeroptera records. Proceedings of the Entomological Society of Washington 109(1): 136-54.

Dia, A., and A. Thomas. 2007. Ecology and biomonitoring of streams in northern Lebanon in the Aarqa River (Ephemeroptera, Plecoptera, Trichoptera). Ephemera 7(2): 115-127.

da Conceicao Bispo, P. and V. L. Crisci-Bispo. 2006. Plecoptera. M3m Monografias Tercer Milenio 5:63-66.

Dewson, Z. S., A. B. W. James, and R. G. Death. 2007. Invertebrate community responses to experimentally reduced discharge in small streams of different water quality. Journal of the North American Benthological Society 26(4): 754-766.

Dinakaran, S. and S. Anbalagan. 2007. Anthropogenic impacts on aquatic insects in six streams of south Western Ghats. Journal of Insect Science 7: 37.

Duggan, I.C., I. K. G. Boothroyd, and D. A. Speirs, 2007. Factors affecting the distribution of stream macroinvertebrates in geothermal areas: Taupo Volcanic zone, New Zealand. Hydrobiologia 592(1): 235-247.

Du, Y. Z., and Z. J. Wang. 2007. New species of the genus *Amphinemura* (Plecoptera: Nemouridae) from Yunnan, China. Zootaxa 1554(20): 57-62.

Du, Y. Z., Z. J. Wang, and P. Zhou. 2007. Two new species of *Protonemura* (Plecoptera: Nemouridae) from China. Aquatic Insects 29(2): 97-102.

Du Y. Z., Z. J. Wang, and P. Zhou. 2007. Two new species of the genus *Mesonemoura* and redescription of *M. spiroflagellate* (Plecoptera: Nemouridae) from China. Zootaxa 1495(31): 47-52.

Du, Y. Z., Z. J. Wang, and P. Zhou. 2007. Four new species of the genus *Amphinemura* (Plecoptera: Nemouridae) from China. Aquatic Insects 29(4): 297-305.

Eedy, R. I., D. J. Giberson. 2007. Macroinvertebrate distribution in a reach of a north temperate eastern Canadian river: Relative importance of detritus, substrate and flow. Fundamental and Applied Limnology/Archiv fuer Hydrobiologie 169(2): 101-114.

Eggert, S. L. and J. B. Wallace. 2007. Wood biofilm as a food resource for stream detritivores. Limnology and Oceanography 52(3): 1239-1245.

Fenoglio, S., T. Bo, and G. Malacarne. 2007. Preimaginal feeding habits of *Dictyogenus fontium* (Plecoptera, Perlodidae) in an alpine brook in NW Italy. Entomologica Fennica 18(1): 27-31.

Fenoglio, S. 2007. Allometric growth in *Anacroneuria* Klapalek, 1909 nymphs (Plecoptera: Perlidae). Tropical Zoology 20(1): 109-114.

Fenoglio, S., T. Bo, M. Pessino, and G. Malacarne. 2007. Feeding of *Perla grandis* nymphs (Plecoptera: Perlidae) in an apennine first order stream (Rio Berga, NW Italy). Annales de la Societe Entomologique de France 43(2): 221-4.

Ferreira R., J. Moacir, and J. A. Rafael. 2007. Description of one new species and a key to adults of *Macrogynoplax enderlein* (Plecoptera, Perlidae) from Reserva Florestal Adolpho Ducke, Amazonas, Brazil. Zootaxa 1511(21): 17-28.

Ferro, M. L., and R.W. Sites. 2007. The Ephemeroptera, Plecoptera, and Trichoptera of Missouri state parks, with notes on biomonitoring, mesohabitat associations, and distribution. Journal of the Kansas Entomological Society 80(2): 105-29.

Fochetti, R. 2006. Insecta Plecoptera. pp. 143-145 and 159 maps on CD *In*: Ruffo, S., and F. Stoch (eds). Checklist and distribution of the Italian fauna. Memorie del Museo Civico di Storia Naturale di Verona, 2. Serie, Sezione Scienze della Vita 17, with CD-ROM.

Fochetti, R. and J.M. T. de Figueroa. 2006. Notes on diversity and conservation of the European fauna of Plecoptera (Insecta). Journal of Natural History 40: 41-43.

Froehlich, C. G. 2007. Three new species of *Anacroneuria* (Plecoptera: Perlidae) from the state of Mato Grosso do Sul, Brazil. Zootaxa 1461(30): 15-24.

Fuenfstueck, H.-J. 2007. Great spotted woodpecker uses stoneflies as food. Falke 54(11): 432-433.

Gafner, K. and C. T. Robinson. 2007. Nutrient enrichment influences the responses of stream macroinvertebrates to disturbance. Journal of the North American Benthological Society. 26(1): 92-102.

Giberson, D. 2007. From the canoe to the microscope: New faunal information on mayflies and stoneflies from arctic Canada. Newsletter of the Biological Survey of Canada (Terrestrial Arthropods) 26(1): 19-21.

Graf, W. 2007. *Leuctra dylani* sp. n. (Plecoptera: Leuctridae) from Italy. Aquatic Insects 29(1): 17-20.

Gresens, S.E., K.T. Belt, J.A. Tang, D.C. Gwinn, and P.A. Banks. 2007. Temporal and spatial responses of Chironomidae (Diptera) and other benthic invertebrates to urban stormwater runoff. Hydrobiologia 575: 173-90.

Griffiths, R. W. and T. G. Northcote. 2006. Are autumn-growing detritivorous stoneflies most productive? Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen 29(4): 1925-1931.

Hagner-Holler S., C. Pick, S. Girgenrath, J. H. Marden, and T. Burmester. 2007. Diversity of stonefly hexamerins and implication for the evolution of insect storage proteins. Insect Biochemistry and Molecular Biology 37(10): 1064-1074.

Harding, J.S. 2006. 'Basking' behaviour in adults of *Spaniocercoides cowleyi* (Plecoptera: Notonemouridae). New Zealand Natural Sciences 31: 71-78.

Hauer, F. R. and V. H. Resh. 2006. Macroinvertebrates. *In*: Methods in stream ecology. F. R. Hauer and G. A. Lambert, editors. Second Edition. Elsevier Academic Press, Amsterdam, Netherlands. 435 pp.

Heimdal, D. P. and M. W. Birmingham. 2006. Additions and corrections to the stoneflies (Plecoptera) of Iowa, U.S.A. Great Lakes Entomologist 39: 221-223.

Hübner, G. 2007. Ökologisch-faunistische Fließgewässerbewertung am Beispiel der salzbelasteten unteren Werra und ausgewählter Zuflüsse. [Ecological-fainistical running water assessments exemplified by the lower river Werra and selected tributaries]. Ökologie und Umweltsicherung 21: XV + 303 pp.

Isobe, Y. 2006. Dr. Teizi Kawai (20 Oct. 1925-23 April. 2005). Perla 24:8-11.

Isobe, Y. 2006. Dr. Teizi Kawai (20 Oct. 1925-23 April. 2005). Braueria 33:8.

Jackson, H.M., C. N. Gibbons, and C. Soulsby. 2007. Role of discharge and temperature variation in determining invertebrate community structure in a regulated river. River Research and Applications 23(6): 651-669.

Jonsson, M. 2006. Species richness effects on ecosystem functioning increase with time in an ephemeral resource system. Acta Oecol 29(1):72-7.

Keller, S. 2007. Arthropod-pathogenic Entomophthorales from Switzerland. III. First additions. Sydowia 59(1): 75-113.

Kjaerstad, G. 2007. A focus on the red data List: Mayflies, dragonflies, stoneflies and caddisflies. Insekt-Nytt 32(1-2): 16-21.

Klass, K.D. and U. Eulitz. 2007. The tentorium and anterior head sulci in Dictyoptera and Mantophasmatodea (Insecta). Zoologischer Anzeiger 246(3): 205-234.

Klug, R., and Klaus-Dieter Klass. 2007. The potential value of the mid-abdominal musculature and nervous system in the reconstruction of interordinal relationships in lower Neoptera. Arthropod Systematics and Phylogeny 65(1): 73-100.

Kondratieff, B.C. 2006. Recent Plecoptera literature (calendar year 2005 and earlier). Perla 24: 16-36.

Kondratieff, B.C., R.F. Kirchner, R.E. Zuellig, and D.R. Lenat. 2007. A new species of *Tallaperla* (Plecoptera: Peltoperlidae) from North Carolina, U.S.A. Entomological News 118(1): 81-2.

Kondratieff, B. C., R. W. Baumann, and J. J. Lee. 2007. The genus *Chernokrilus* Ricker (Plecoptera: Perlodidae). Illiesia 3(6): 163-170.

Krno, I. 2006. Macrozoobenthos of two different catchment areas of the Tatra Mountain lakes with a special reference on the effects of acidification. Biologia (Bratislava) 61(Suppl 18):S181-184.

Krno, I. 2007. Impact of human activities on stonefly (Insecta: Plecoptera) ecological metrics in the Hron River (Slovakia). Biologia 62(4): 446-457.

Langmaier S., Strasser A.E., Patzner R.A. 2006. Ecological data on stonefly larva from Salzburg, Austria (Insecta: Plecoptera). Mitteilungen aus dem Haus der Natur 17: 76-82.

Lieske, R and P. Zwick. 2007. Food preference, growth and maturation of *Nemurella pictetii* (Plecoptera: Nemouridae). Freshwater Biology 52(7): 1187-1197.

Li, Weihai, and D. Yang. 2007. Review of the genus *Amphinemura* (Plecoptera: Nemouridae) from Guangdong, China. Zootaxa 1511(21): 55-64.

Li W.H. and D. Yang. 2007. Two new species of *Nemoura* (Plecoptera: Nemouridae) from Henan, China. Zootaxa 1511(21): 65-68.

Li, W. and D. Yang. 2007. New species of the genus *Mesonemoura* (Plecoptera: Nemouridae) from China. Aquatic Insects 29(3): 173-180.

Liu, Y. and D. Ren. 2006. Progress in the study of Plecoptera fossils. Acta Zootaxonomica Sinica 31(4): 758-768.

Liu, Y., R. Dong, N.D. Sinitshenkova, and K.S. Chung. 2007. The oldest known record of Taeniopterygidae in the Middle Jurassic of Daohugou, Inner Mongolia, China (Insecta: Plecoptera). Zootaxa 1521(5): 1-8.

Liu, Y., N. D. Sinitshenkova, and D. Ren. 2007. A new genus and species of stonefly (Insecta: Plecoptera) from the Yixian formation, Liaoning Province, China. Cretaceous Research 28(2): 322-326.

López-Rodríguez, J. M., J. M. Tierno de Figueroa, T. Derka, and I. Krno. 2007. The adult diet of *Xanthoperla apicalis* and *Siphonoperla torrentium* (Plecoptera, Chloroperlidae) in Danube Basin (Slovakia). Biología Bratislava 62(5): 607-609.

Lozano-Quillis, M. A., A. Pujante, and F. Martinez-Lopez. 2006. Ecological status study of headwater ecosystems of river Bergantes, Mijares and Palancia (Castellon, Espana [Spain]). Boletin de la Real Sociedad Espanola de Historia Natural Seccion Biologica 101: 57-70.

Maiolini B., V. Lencioni, A. Boggero, B. Thaler, A.F. Lotter, and B. Rossaro. 2006. Zoobenthic communities of inlets and outlets of high altitude alpine lakes. Hydrobiologia 562:217-229.

Manko P and Z. Zat'ovicova. 2006. Results of the investigation on benthic macrofauna of Slovak section of the Dunajec River. Folia Faunistica Slovaca 11: 29-32.

Martin, C.A. S.N. Luoma, D.J. Cain, and D.B. Buchwalter. Cadmium ecophysiology in seven stonefly (Plecoptera) species: Delineating sources and estimating susceptibility. Environmental Science and Technology 41(20): 7171-7177.

Masters, Z., I. Peteresen, A.G. Hildrew, S.J. Ormerod. 2007. Insect dispersal does not limit the biological recovery of streams from acidification. Aquatic Conservation: Marine and Freshwater Ecosystems 17(4): 375-383.

McCord, S.B., G.S. Guha, and R.S. Grippo. 2007. Effects of subsample size on seasonal and spatial comparisons of stream macroinvertebrate communities. Environmental Monitoring and Assessment 135(1-3): 409-422.

McLellan, I.D. and P. Zwick. 2007. New species of and keys to South American Gripopterygidae (Plecoptera). Illiesia 3(4): 20-42.

McMurray, P. D., Jr. and S.A. Newhouse. 2006. An annotated list of the aquatic insects collected in 2004 in the Wabash River watershed, Indiana. Proceedings of the Indiana Academy of Science 115:110-120.

Miller, S.W., D. Wooster, and J. Li. 2007. Resistance and resilience of macroinvertebrates to irrigation water withdrawals. Freshwater Ecology 52(12): 2494-2510.

Miserendino, M. L. 2007. Macroinvertebrate functional organization and water quality in a large arid river from Patagonia (Argentina). Annales de Limnologie - International Journal of Limnology 43(3): 133-145.

Moldenke, A. R. and C. Ver Linden. 2007. Effects of clearcutting and riparian buffers on the yield of adult aquatic macroinvertebrates from headwater streams. Forest Science 53(2): 308-19.

Moroz, M. D., S. Czachorowski, K. Lewandowski, and P. Buczynski. 2006. Aquatic insects (Insecta: Plecoptera, Ephemeroptera, Odonata,Trichoptera) of the rivers in the Berezinskii Biosphere Reserve. Entomologicheskoe Obozrenie 938. 85:749-757.

Moroz, M. D., S. Czachorowski, K. Lewandowski, and P. Buczynski. 2006. Insects (Insecta: Ephemeroptera, Plecoptera, Odonata, Heteroptera, Trichoptera) the aquatic of flood plain of oak forest in the Prypatski National Park. Vyestsi Natsyyanal'Nai Akademii Navuk Byelarusi Syeryya Biyalahichnykh Navuk 2:111-116.

Moya, N., S. Tomanova, and T. Oberdorff. 2007. Initial development of a multi-metric index based on aquatic macroinvertebrates to assess stream conditions in the Upper Isiboro-Secure Basin, Bolivian Amazon. Hydrobiologia 589: 107-16.

Muotka, T., A. Juntunen, and K. Meissner. 2006. Differential vulnerability determines the diet of a slow-moving predatory stream insect. Freshwater Biology 51:1486-1495.

Murányi, D. 2006. Comparison of *Leuctra kisi* Steinmann, 1968 with *Leuctra quadrimaculata* Kis, 1963 (Plecoptera: Leuctridae), and the first record of *L. quadrimaculata* from Ukraine. Opuscula Zoologica Budapest, 2004 (2006), 35:73-75.

Murányi, D. 2007. New and little-known stoneflies (Plecoptera) from Albania and the neighbouring countries. Zootaxa 1533(26): 1-40.

Myers, L., T. Mihuc, and T. Woodcock. 2007. The impacts of forest management on invertebrate communities associated with submerged leaves in forested Adirondack streams. Journal of Freshwater Ecology 22: 325-332.

Nations, T. M., B. P. Stark, and M.B. Hicks. 2007. The winter stoneflies (Plecoptera: Capniidae) of Mississippi. Illiesia 3(9): 70-94.

Navarro-Martinez, D., M. J. Lopez-Rodriguez, and J. M. Tierno de Figueroa. 2007. The life cycle and nymphal feeding of *Capnioneura petitpierreae* Aubert 1961 (Plecoptera, Capniidae). Illiesia 3(8): 65-9.

Nedbalova, L., J. Vrba, J. Fott, L. Kohout, J. Kopacek, M. Macek, and T. Soldan. Biological recovery of the Bohemian Forest lakes acidification. Biologia 61: S453-S465.

New, T. R. 2008. Legislative inconsistencies and species conservation status: understanding or confusion? The case of *Riekoperla darlingtoni* (Plecoptera) in Australia. Journal of Insect Conservation 12(1): 1-2.

Niyogi, D. K., M. Koren, C. J. Arbuckle, and C. R. Townsend. 2007. Stream communities along a catchment land-use gradient: Subsidy-stress responses to pastoral development. Environmental Management 39(2): 213-25.

Ortiz, J.D. and M.A. Puig. 2007. Point source effects on density, biomass and diversity of benthic macroinvertebrates in a Mediterranean stream. River Research and Applications. 23(2): 155-170.

Paller, M. H., F. D. Martin, L. D. Wilke, and W. L. Specht. 2007. Facors influencing the accuracy of a macroinvertebrate bioassessment protocol in South Carolina coastal plain streams. Journal of Freshwater Ecology 22(1): 23-32.

Parker, R. P., O. S. Flint, Jr., L. M. Jacobus, B. C. Kondratieff, W. P. McCafferty, and J. C. Morse. 2007. Ephemeroptera, Plecoptera, Megaloptera, and Trichoptera of the Great Smoky Mountains National Park. Southeastern Naturalist. Special Issue 1:159-174.

Petrin, Z., H. Laudon, and B. Malmquist. 2007. Does freshwater macroinvertebrate diversity along a pH-gradient reflect adaptation to low pH? Freshwater Biology 52(11): 2172-2183.

Pfälzer, G., C. Weber, and P. Haase 1999. Zoozönotische und physiographische Untersuchungen an Bachoberläufen des Werra-Berglandes (Hessen). [Zoocoenotic

and physiographic studies on upper stream runs of the Werra mountains (Hesse)]. Göttinger Naturkundliche Schriften 5: 89-105.

Previsic, A., M. Kerovec, and M. Kucinic. 2007. Emergence and composition of Trichoptera from karst habitats, Plitvice Lakes region, Croatia. International Review of Hydrobiology 92(1): 61-83.

Purcell, L.A., and D.J. Giberson. 2007. Effects of an azinphos-methyl runoff event on macroinvertebrates in the Wilmot River, Prince Edward Island, Canada. Canadian Entomologist 139(4): 523-533.

Ravizza, C. and G. Vinçon. 2007. The position of *Leuctra gardinii* within the genus *Leuctra* (Plecoptera Leuctridae). Bollettino della Societá Entomologica Italiana 139(1): 3-6.

Ribeiro, V. R. de and C. G. Froehlich. 2007. Two new species of *Anacroneuria* (Plecoptera: Perlidae) from southern Brazil. *Zootaxa* 1624: 53–57.

Ribeiro J. M. F. and J. A. Rafael. 2007. Description of one new species and a key to adults of *Macrogynoplax* Enderlein (Plecoptera, Perlidae) from Reserva Florestal Adolpho Ducke, Amazonas, Brazil. Zootaxa 1511: 17-28.

Riley, C., S. Inamdar, and C. Pennuto. 2007. Use of benthic macroinvertebrate indices to assess aquatic health in a mixed-landuse watershed. Journal of Freshwater Ecology 22(4): 539-551.

Rückert, M., D. Wittrock, and P. Martin. 2007. Ganzjährige Emergenzuntersuchungen and drei ausgewählten Quellen in Schleswig-Holstein. [All year emergence studies on three selected springs in Schleswig-Holstein]. Deutsche Gesellschaft für Limnologie (DGL) – Tagungsbericht 2006 (Dresden), Werder 2007: 55-59.

Rust, J. D. and N. H. Troelstrup Jr,. 2006. Descriptive analysis of aquatic invertebrate communities in wadeable and non-wadeable streams of the northern Great Plains network. Proceedings of the South Dakota Academy of Science 85:49-61.

Sanchez-Fernandez, D., P. Abellan, A. Mellado, J. Velasco, and A. Millan. 2006. Are water beetles good indicators of biodiversity in Mediterranean aquatic ecosystems? The case of the Segura River Basin (SE spain). Biodiversity and Conservation 15(14):4507-4520.

Schultz, H., B. Janecek, M. Hess, H. Reusch, and W. Graf. 2006. The macrozoobenthos of the Natura 2000 area of St. Lorenzener Hochmoor (Ader Valley, Carinthia) with special consideration of the dragonfly fauna (Insecta: Odonata). Carinthia II 116(2): 343-358.

Speth, S., Brinkmann, R., C. J. Otto, and J. Lietz. 2006. Atlas der Eintags-, Stein- und Köcherfliegen Schleswig-Holsteins. [Atlas of the mayflies, stoneflies and caddisflies of Schleswig-Holstein]. Landesamt für Natur und Umwelt des Landes Schleswig-Holstein, Flintbek, 251 pp.

Stark, B. P. 2007. Additional characters in *Perlesta baumanni* Stark (Plecoptera: Perlidae), with notes on other Ouachita Mountain species. Illiesia 3(5): 43-5.

Stark, B. P. and R. W. Baumann. 2007. *Sweltsa yurok* (Plecoptera: Chloroperlidae), a new stonefly from California, U.S.A. Illiesia 3(10): 95-101.

Stark, B. P. and I. Sivec. 2007. A synopsis of Styloperlidae (Insecta, Plecoptera) with description of *Cerconychia sapa*, a new stonefly from Vietnam. Illiesia 3(2): 10-6.

Stark, B. P. and I. Sivec. 2007. New species and records of Asian Peltoperlidae (Insecta: Plecoptera). Illiesia 3(12): 3-12.

Stark, B. P. and I. Sivec. 2007. Studies of Indonesian Perlidae (Plecoptera), with descriptions of three new species. Illiesia 3(7): 53-64.

Stark, B. P. and I. Sivec. 2007. Taiwanese species of *Cryptoperla* (Plecoptera: Peltoperlidae). Illiesia 3(14) : 150-6.

Staudacher, K. and L. Fuereder. 2006. The insect fauna from selected springs of the Schuett (Carinthia). Entomologica Austriaca 13:47-56.

Stewart, K. W. and E. F. Drake. The nymphs of two rare western stonefly (Plecoptera) species, representing little-known genera. Transactions of the American Entomological Society 133(1-2): 115-22.

Teslenko, V. A. 2007. A survey of stonefly (Plecoptera) fauna in respect of stream zonation in the Far East of Russia. Evraziatskii Entomologicheskii Zhurnal 6(2): 157-80.

Thorp, R. A., J. B. Monroe, E. C. Thorp, T. A. Wellnitz, and N. L. Poff. 2007. Food and habitat relationships of *Claassenia sabulosa* (Plecoptera: Perlidae) in the upper Colorado River, Colorado. Western North American Naturalist 67(1): 57-62.

Tierno de Figueroa, J. M., J. M. Luzon-Ortega, M. J. Lopez-Rodriguez. 2006. [Communication systems of stoneflies.]. Quercus 239:36-41.

Tierno de Figueroa, J. M., A. Vera, and M. J. Lopez-Rodriguez. 2006. Adult and nymphal feeding in the stonefly species *Antarctoperla michaelseni* and *Limnoperla jaffueli* from central Chile (Plecoptera: Gripopterygidae). Entomologia Generalis 29(1):39-45.

Tierno de Figueroa, J. M., J. M.Luzón-Ortega, and M. J. López-Rodríguez,. 2006. Mating calls in stoneflies (Insecta, Plecoptera). Zoologica Baetica, 17: 93-96.

Tierno de Figueroa, J. M., S. Fenoglio, and J. M. Elouard,. 2007. Nymphal feeding of the genus *Madenemura* Paulian, 1949 (Plecoptera, Notonemouridae) from Madagascar. African Entomology 15(2): 373-374.

Tierno de Figueroa, J. M. and R. Fochetti. 2007. First record of the genus *Capnioneura* Ris 1905 (Plecoptera, Capniidae) for Greece. Boletín de la Asociación Española de Entomología 31(3-4): 279-280.

Tiunova, T. M. 2006. Trophic structure of invertebrate communities in ecosystems of salmon rivers in the southern Far East. Russian Journal of Ecology 37(6):419-425.

Tomanova, S. and P. A. Tedesco. 2007. Body size, ecological tolerance and potential for water quality bioindication in the genus *Anacroneuria* (Plecoptera: Perlidae) from South America. Revista de Biologia Tropical 55(1): 67-81.

Tomsic, C. A., T. C. Granata, R. P. Murphy, and C. Liuchak. 2007. Using a coupled eco-hydrodynamic model to predict habitat for target species following dam removal. Ecological Engineering 30(3): 215-230.

Torralba Burrial, A. and F.J. Ocharan. 2007. Comparison between surber and hand net sampling methods to survey benthic macroinvertebrates in rivers of Aragon (NE Iberian Peninsula). Limnetica 26(1) 13-24.

Valladolid, M., J. J. Martinez-Bastida, M. Arauzo, and C. Guiterrez. 2006. Abundance and biodiversity of macroinvertebrate of the Oja River (La Rioja, Espana). Limnetica 25(3): 745-751.

Valle, L.G. 2007. New species and summary of Iberian Harpellales. Mycologia 99(3): 442-455.

van den Hoek, T. 2006. The stonefly *Protonemura risi* new for the Netherlands (Plecoptera: Nemouridae). Nederlandse Faunistische Mededelingen 25:43-51.

Vera, A. 2006. New species of Gripopterygidae of Chile, *Potamoperla testacea* n. sp. (Insecta: Plecoptera). Gayana 70(2):168-175.

Vera, A. 2006. [Abstract without title]. III Congreso Sociedád Chilena de Limnología 15° Taller de Limnología, Punta Arenas, 24 al 27 Octubre de 2006, p. 31.

Vidinova, Y, I. Yaneva, V. Tyufekchieva. 2006. Ephemeroptera and Plecoptera (Insecta) from the Bulgarian part of the Struma River. Acta Zoologica Bulgarica 58(1):125-130.

Vinçon, G. and D. Muranyi. 2006. *Leuctra dalmoni*, a new orophilic species with wide distribution in Europe (Plecoptera). Nouvelle Revue d'Entomologie 23(3): 237-248.

Vuori, K., A. Uusitalo, and K. Kuusela. 2006. Assessing threat status of stoneflies (Plecoptera) in Finland: Species distribution in relation to catchment characteristics and water quality. Internationale Vereinigung für Theoretische und Angewandte Limnologie Verhandlungen 29(4) 2006: 1711-1714.

Wagner, A., V. Lubini, and H. Vicentini. 2007. *Habrophlebia eldae* a species new for the Swiss fauna (Ephemeroptera: Leptophlebiidae). Mitteilungen der Schweizerischen Entomologischen Gesellschaft 80(1-2): 91-98.

Wagner, R., M. Obach, H. Werner, and H. Schmidt. 2006. Artificial neural nets and abundance prediction of aquatic insects in small streams. Ecological Informatics 1(4): 423-430.

Walther, D. 2008. Macroinvertebrate responses to constructed riffles in the Cache River, Illinois, USA. Environmental Management January 9, 2008.

Wang, L., D. M. Robertson, and P. J. Garrison. 2007. Linkages between nutrients and assemblages of macroinvertebrates and fish in wadeable streams: Implication to nutrient criteria development. Environmental Management 39(2): 194-212.

Willkommen, J. and T. Hoernschemeyer. 2007. The homology of wing base sclerites and flight muscles in Ephemeroptera and Neoptera and the morphology of the pterothorax of *Habroleptoides confusa* (Insecta: Ephemeroptera: Leptophlebiidae). Arthropod Structure & Development 36(2): 253-69.

Winterbourn, M. J., W. L. Chadderton, S. A. Entrekin, J. L. Tank, and J. S. Harding. 2007. Distribution and dispersal of adult stream insects in a heterogeneous montane environment. Fundamental and Applied Limnology 168(2) 2007: 127-135.

Wittrock, D., P. Martin, M. Rückert & H. Brendelberger. 2007. Kaltstenothermie bei Quellorganismen? – Autökologische Untersuchungen an ausgewählten Arten aus dem Tiefland. [Cold stenothermy in spring-inhabiting organisms? Autecological studies on selected lowland species]. Deutsche Gesellschaft für Limnologie (DGL) – Tagungsbericht 2006 (Dresden), Werder 2007: 60-65.

Wolf, B. 2007. Die Verbreitung von *Capnia bifrons* (Plecoptera), *Metreletus balcanicus* und *Siphlonurus armatus* (Ephemeroptera) in temporären Bächen des Vogelsberges, Hessen / The distribution of *Capnia bifrons* (Plecoptera), *Metreletus balcanicus* and *Siphlonurus armatus* (Ephemeroptera) in intermittent streams of the Vogelsberg Mountains, Hesse, Germany. Lauterbornia 62: 127-135.

Yang, D. and C. Yang. 1996. Four new species of Plecoptera from Nei Mongol. Journal of China Agricultural University 1(5): 115-118.

Yasick, A. L., R. A. Krebs, and J. A. Wolin. 2007. The effect of dispersal ability in winter and summer stoneflies on their genetic differentiation. Ecological Entomology 32(4): 399-404.

Zhiltzova, L. A., and S. K. Cherchesova. 2007. Description of the larva of a Caucasian stonefly, *Taeniopteryx caucasica* Zhiltzova (Plecoptera, Taeniopterygidae). Entomologicheskoe Obozrenie 86(1): 104-106.

Zuniga, M. del Carmen and B. P. Stark. 2007. The first record of *Macrogynoplax* Enderlein (Plecoptera: Perlidae) from the Colombian Amazonas. Illiesia 3(11): 102-103.

Zuniga, M. del Carmen, B. P. Stark, W. Cardona, C. Tamaris-Turizo, and O. E. Ortega. 2007. Additions to the Colombian *Anacroneuria* fauna (Plecoptera: Perlidae) with descriptions of seven new species. Illiesia 3(13): 127-49.

Zwick, P. 2007. Intercontinental disjunction in *Alaskaperla* (Plecoptera: Chloroperlidae). Aquatic Insects 29(1): 67-9.

Zwick, P. Anbalagan, S. Dinakaran. 2007. *Neoperla biseriata* sp. n., a new stonefly from Tamil Nadu, India (Plecoptera: Perlidae). Aquatic Insects 29(4): 241-245.

Standing Committee
International Society of Plecopterologists