

PERLA

Annual Newsletter and Bibliography of The International Society of Plecopterologists



Hesperoperla pacifica (Banks)

Photograph by Bill P. Stark

PERLA NO. 24, 2006

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

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**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 24 (2006) in one of the following ways, in order to be kept on the mailing list for PERLA 25 (2007): (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 23) 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

EIGHTH NORTH AMERICAN PLECOPTERA SYMPOSIUM

18-21 MAY 2006

Conference Co-Organizers, Dr. R. Edward DeWalt and Dr. Donald W. Webb

Hosted by the Illinois Natural History Survey and the University of Illinois
Dixon Springs Agricultural Experimental Station,
Rt. 1, Box 256, Simpson, Illinois 62985. 618-695-2441

Tentative Schedule:

- Thursday night (18 May)-registration, preconference greetings, program on the natural history of the Shawnee Hills.
- Friday (19 May)-symposium papers and posters.
- Saturday (20 May)-AM symposium papers, PM field trip to Lusk Creek and other sites.
- Sunday (21 May)-AM business meeting, establish 2009 site. Adjourn



INTERNATIONAL JOINT MEETING 2008

Dr. Arnold H. Staniczek, *Curator*, Department of Entomology, Staatliches Museum für Naturkunde, Stuttgart, Germany (staniczek.smn@naturkundemuseum-bw.de) will host the International Joint Meeting of the XII International Conference on Ephemeroptera and XVI International Symposium on Plecoptera from 8-14 June 2008. The Conference website is now online <http://www.naturkundemuseum-bw.de/stuttgart/projekte/jointmeeting08/>

Make your plans and start your research for papers to be presented.

Current Research on Plecoptera

Dr. Richard W. Baumann

1. Revision of the genus *Malenka* with Boris Kondratieff
2. Studies on the stoneflies of Ohio with Fred Kirchner, Ed Dewalt and Brian Armitage.
3. Review of the Nearctic species of *Kogotus* with Boris Kondratieff.
4. *Alloperla severa* complex with Boris Kondratieff

Dr. R. Edward DeWalt

R. E. DeWalt, D. W. Webb, S. A. Grubbs, and R. W. Baumann. Assessing Changes in the Stonefly Fauna of the Till and Drift Plains of the Middle Midwest. The Illinois stonefly assemblage has experienced drastic changes in the 20th Century (DeWalt et al. 2005, *Annals ESA* 98: 941-950, Webb 2002 *Bull INHS* 36: 195-274). Two endemics are feared extinguished and 19 more are likely extirpated from the state. The worst losses occurred in the till and drift plains of the north 1/2 of Illinois. We hypothesize that a similar fate has befallen the stoneflies of adjacent states with similar glacial and cultural histories. We have begun assessing the contemporary fauna of northern Indiana, southern Michigan, southern Wisconsin, northern Ohio, northwestern Pennsylvania and New York, and southern Ontario, Canada. To determine the original fauna, we are re-evaluating historical specimens from the Illinois Natural History Survey, Canadian National Collection, the National Museum of Natural History, and other sources. Ultimately, we hope to determine how the fauna has changed over this large area and provide states with imperilment rankings (using NatureServe.org categories) for all species possible. A subset of the authors submitted an NSF BS&I proposal in January 2006 to help fund this work. Indiana Department of Natural Resources has provided some small funds to help defray travel expenses.

R. E. DeWalt and J. Heilveil. Conservation Genetics of *Acroneuria frisoni*, Establishing Haplotype Variation Prior to Reintroduction to Illinois. Reintroductions of extirpated fauna is fraught with difficulty. Knowing what populations are appropriate to use as colonization sources is often the most difficult to answer. Replacement with a population that is not locally adapted may result in failure. *Acroneuria frisoni* Stark & Brown was widespread in Illinois historically, but its range has been reduced to the uplifted area in the extreme southern tip of Illinois. Recent discovery in the

INHS collection of 11 pinned specimens (1938-1943) from a single, central Illinois location presents the possibility of determining the original genetic variation of the species here. MtDNA has been extracted from these specimens. We are in the process of identifying several extant populations to find a close match in haplotype variation. The species is still common in south central Indiana, central Kentucky, parts of Ohio, and in Missouri. These are likely sources to recolonize Illinois. We hope to identify potential sources of recolonization for this once most common of Illinois *Acroneuria* by fall 2006.

Dr. Scott A Grubbs

1. In collaboration with Andy Sheldon, we are working on the distribution of stoneflies from the Mount Cheaha/Talladega Mountain region of east-central Alabama. Andy is collecting both nymphs and adults, with particular emphasis on altitudinal zonation patterns.
2. In collaboration with R. Edward DeWalt, we have initiated a region-wide assessment of the biogeography and conservation status of the stoneflies of the central Till Plain region. This area encompasses portions of several states, namely Illinois, Indiana, Michigan, Ohio, and Wisconsin.
3. Description of a new species of *Allocaenia* from Alabama, with several new state records.
4. Review of the North American *Soyedina*, including a new species description from Kentucky.
5. I also have several current research projects that are not limited solely to stonefly research, namely (a) constancy of riverine macroinvertebrate assemblages at Mammoth Cave National Park, (b) influence of watershed- and reach scale parameters on macroinvertebrate assemblages in the Upper Green River Basin, Kentucky, and (c) influence of alternative forestry practices on headwater stream structure and function

Ian McLellan

I am currently working on a number of projects. I am currently identifying stoneflies for various institutions throughout New

Zealand, and at present I'm dealing with material from Canterbury Museum (Christchurch, New Zealand), Otago Museum (Dunedin, NZ), Department of Conservation (Invercargill, NZ). Projects in preparation involve the descriptions of new species of New Zealand notonemourids, gripopterygids and a single eustheniid. In between I work on South American gripopterygids and at present I am concentrating on *Notoperla*.

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

1. Just finished, with co-author Bill P. Stark, the Plecoptera chapter for the upcoming 4th edition of the Merritt, Cummins & Berg textbook "An Introduction to the Aquatic Insects of North America".
2. Ken is a Plecoptera consultant for the North American Benthological Societies Taxonomic Certification Program (TCP).
3. The book "Stoneflies of Alaska and Western Canada" with co-author Mark W. Oswood, will be published by Caddis Press by June, 2006. The book includes the history of stonefly studies and records for this northwestern corner of North America, illustrated adult keys to all 153 species, and generic keys to regional nymphs. Ken and Mark have been working on the project since 1980.
4. Ken is working with Eugene Drake for the 3rd year to rear and describe nymphs of rare southern California *Calileuctra*, *Taenionema*, *Haploperla*, *Capnia*, and *Sweltsa*.
5. Bill Stark and Ken are engaged in an ambitious project to attempt rearing of all western *Sweltsa* species, and description of the nymphs. Eugene Drake is helping with California species, and Boris Kondratieff with Colorado species. If any of you have correlated nymphs, please contact Ken or Bill.
6. Kens 15-year project to rear and describe *Taenionema* species nymphs, with collaboration of several colleagues, is nearing completion.

Bob Zuellig, Barry Poulton, and Boris Kondratieff are working on the stoneflies of Missouri. If anyone has specimens from Missouri, especially from areas north of the Missouri River, please send them to the address below so they can be included in our manuscript. All specimens will be well cared for and returned.

Bob Zuellig, Dept of Fishery, Wildlife, and Conservation Biology, Colorado State University, Fort Collins, CO 80523, U.S.A.

Luke Myers

I am working on a survey of the stoneflies of New York State particularly the Adirondack Park with Boris Kondratieff. If anyone has specimens please send them to Dr. Kondratieff

Obituaries

FRANCOISE HARPER

Françoise Harper died June 24, 2005 after a long bout of MSA, a Parkinson-type neurodegenerative disease; she was 63. Françoise was drawn to zoology by a passion for reptiles which she later transferred to mayflies on which she completed her Master's thesis under Abbé Étienne Magnin, a priest-scientist of the old French school. Her initiation to entomology came during summer work as a student on the Montreal Expo Shadfly Project in 1965 under the supervision of Dr. Philip S. Corbet (of dragonfly fame) and Mr. Hartley Fredeen (a black fly man).

She worked part-time all her life mainly as a scientific translator (English to French) for the Canadian National Research Council. She did also free-lance work and, among others, translated into French the Peterson Field Guides to the Insects and the Mammals. She often found time to spend a few days a week in my lab and she authored or co-authored some 15 scientific papers on aquatic insects and described 5 new species of mayflies. Her first species, *Ameletus walleyi*, was dedicated to G. Stuart Walley, an assistant to Dr. James McDunnough, who introduced her to the world of mayflies (incidentally, Mr. Walley is now 101 years old and Canada's oldest living professional entomologist). She had a keen eye for taxonomy and

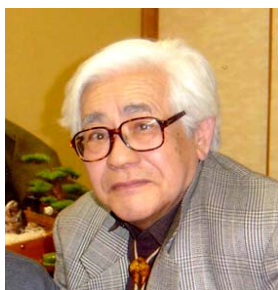


was quite knowledgeable of the Northeastern fauna of mayflies, stoneflies, and caddisflies. She loved fieldwork and was for a time field and lab assistant for Dr. H.B.N. Hynes. She always remembered with great fondness a summer spent in Oregon in 1980 in the lab of Dr. Norm H. Anderson and the many months at Schlitz (Germany) in 1992-1993 with Dr. Peter Zwick.

She was artistically-minded. She had a beautiful singing voice and perfect pitch and belonged to many choirs and ensembles; she was particularly dedicated to her High Church Anglican liturgical choir. She learned painting and jewelry from her mother who was an artist; she herself was more of a very good artisan. She wrote beautiful French prose and, during her illness, drew up her memoirs for her two grandsons she would not see grow up.

P.P. Harper

DR. TEIZI KAWAI (20 Oct. 1925-23 April. 2005)



TEIZI KAWAI was born in Kyoto and lived his entire life in the city that was an old capital in Japan. He graduated from Kyoto University in 1949 and obtained a research associate position with the Ohtsu Hydrobiological Station. Two years later, he became a faculty member of Nara Women's University (NWU) and retired in 1989 as a professor of Faculty of Science and Graduate School of Human Culture, NWU. He was honored with the title of professor emeritus at NWU for his many substantial scholarly achievements. He continued his scientific activity till the last days and passed away on 23 April 2005. He made major contributions on the taxonomy of Asian Plecoptera. He was awarded 1995 Life Time Achievement Award for his lifeworks from the International Committee of Plecoptelologists at the XII International Symposium on Plecoptera, Lausanne in Switzerland. He also performed his duty as a member of both the Committee and the editorial board for "*Aquatic Insects*" for long time. He contributed greatly to the development of Japanese and Asian aquatic entomology. The book "*An illustrated Book on Aquatic Insects in Japan*" edited by him has been used for 20 years in Japan, and a new book "*Aquatic Insects of Japan: Manual with Keys and Illustrations*" published in January 2005, when he was in hospital. He and Dr. Tanida planned to publish this book 10 years ago, and it was eagerly anticipated. His last studies and

subsequent publications were completed despite his struggle against lung cancer.

When he was 42, he spent a year at the Max-Planck-Institute for Limnology in Schlitz focusing on his research on the taxonomy of Plecoptera. He loved Schlitz as his second hometown, because of great people and beautiful surroundings. Because of his natural pleasant personality he had many friends in the world. He was characterized by his lively intellectual curiosity. He had a great interest in natural history museums, zoos, postage stamps, and even in the kinds of toilet paper! He spent his entire life as a young boy, filled with great curiosity.

During the last several months of his life, his students visited him frequently in the hospital, spending much quality time with him. His collections of stoneflies, other material and literature have been deposited both in Biwa Lake Museum and Nara Women's University, respectively. At Nara Women's University, he was honored with the "Kawai Bunko" (the Library of Kawai). He is remembered as a good friend and senior of our profession forever.

Yu Isobe, Nara

Dr. Kawai – Papers on Plecoptera

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NANCY ADAMS

Museum Specialist and Collections Manager for Plecoptera, Trichoptera and other neuropteroids at the US National Museum of Natural History, Smithsonian Institution, Washington, DC. passed away on August 20, 2005 after a long

battle with lymphoma. All of us who ever had to borrow material from the USNM remember her with great fondness for her helpful attitude and professionalism.

MARGARET THOMSON

The death occurred in England on 30 December 2005, of Margaret Thomson aged 95. In the early 1930s Margaret worked on the sole austroperlid *Austroperla cyrene* for her thesis at Canterbury University College, Christchurch, New Zealand. Although she abandoned Entomology for the successful production of natural history documentary films in Britain her thesis has been a corner stone in the study of New Zealand Plecoptera.

Publications

THOMSON, M. S. 1934. An Account of the Systematics, Anatomy and Bionomics of *Austroperla cyrene* NEWMAN. Unpublished thesis (MSc & Honours), Canterbury, University College, Christchurch. New Zealand. (by Ian McLellan)

GEORGE F. EDMUNDS, JR.

George F. Edmunds, Jr., the internationally recognized mayfly systematist and biogeographer passed away on March 4, 2006 at the age of 85. The scientific legacy of Professor Edmunds is well established. His contributions to mayfly systematics and also to aquatic entomology as a whole were enormous. He authored or co-authored more than 200 scientific papers and a book. He named numerous genera and species of mayflies from several continents and islands.

INTERNATIONAL JOURNAL OF STONEFLY RESEARCH



A new on-line journal, *Illiesia*, **International Journal of Stonefly Research** is being published by Mississippi College, Clinton, Mississippi, USA and the Slovenian Museum of Natural History. The journal publishes

papers dealing with any area of plecopteran research. The Journal is published on the World Wide Webb and it is free.

individuals and institutions, and provides an alternative to excessively priced scientific journals. Before a paper is accepted for publication on the internet, it is subjected to rigorous peer review under the direction of the Advisory Board. Editors are Professors Ignac Sivec and Bill P. Stark. The Advisory Board includes Professors B. Kondratieff, S. Szczytko, K. Stewart, R. Baumann, C. R. Nelson, W. Graf, J. Brittain, and T. Shimizu. Any questions can be directed to illiesia@pms-lj.si

Issues of the journal are posted on the internet at <http://www2.pms-lj.si/illiesia>.

Illiesia EDITORIAL (reprinted 2006 Editorial with permission) Lidija Andreevna Zhiltzova - 80 years



Although publication of high quality papers dealing with stoneflies remains the focus of our journal, from time to time we do want to address important contemporary issues in an editorial format. Consequently, on the occasion of the 80th birthday of Lidija Andreevna Zhiltzova in February 2006, the editors and editorial board of *Illiesia* join with colleagues from around the world in saluting Lidija for her marvelous contributions to the knowledge of stoneflies.

The scientific work of Dr. Zhiltzova is based primarily on her personal collection and extensive fieldwork in the Ukraine, Carpathians, Caucasus, Central Asia, Mongolia and Russian Far East including Magadan, Sakhalin, Kuril Islands and Primorye. Working at times with other Russian and western European investigators she has authored, or co-authored more than 130 papers and monographs dealing with stoneflies including a very recent paper on genus *Agetina* and several major book chapters. Her 2003 publication, "Fauna of Russia and neighboring countries. Insecta, Plecoptera, Group

Euholognatha", is considered one of the major publications on stonefly systematics.

Lidija is one of the most respected scientists to have studied stonefly systematics, morphology and faunistics and her numerous contributions include the description, accompanied by beautiful illustrations, of more than 150 species or genera of stoneflies. In 1998 she received the Lifetime Achievement Award from the International Association of Plecopterologists in recognition of her contributions and life-long dedication to the study of Plecoptera. We are delighted that Lidija remains working actively on stonefly projects and wish her continued health and success.

Articles/Notices

Visit to Cheryl Kraft, the Wife of Gerald Kraft, in Yachats, Oregon

In June of 2005, while on a collecting excursion to the Coast Range of northern California, Oregon and Washington, Dick Baumann and Boris Kondratieff visited Cheryl Kraft in Yachats, Oregon. We visited her at her home that is located where the Yachats River enters the Pacific Ocean. The setting is extremely beautiful and it is easy to see where Jerry gained his inspiration and excitement for life. We arrived in the afternoon but could not visit long because Cheryl was getting ready for a piano recital to honor her students. Consequently, we spent the night in Yachats and did some extra collecting in the Yachats River drainage.

The next day we met with Cheryl and a friend and went through the total of Jerry's aquatic insect holdings. Jerry's downstairs office looks out over the Ocean and is an ideal spot for the study of insects and life in general. We essentially helped her clean up what was left of Jerry's professional things after Dave Wisseman took the literature and collection to Corvallis. Many boxes were sorted, books arranged and equipment inventoried. We even went through his desk and removed everything from insect pins to his microscope and fiber optics lamp.

Cheryl is a regal lady and the privilege we had to meet her and see the home that she and Jerry shared was a special experience. Presently, his literature is at North Texas State University with Ken Stewart and his collection is at Brigham Young University being curated. So even though Jerry Kraft was not able to realize his dreams for the stoneflies of Oregon and Washington, his dream will live on through the use of his collections.

R. W. Baumann

Change of address for Professor Peter Zwick

Towards the end of 2006, I will retire from work, and the Limnologische Fluss-Station Schlitz will be closed at the same time. My present institutional address, phone, and e-mail-address will all become obsolete as of November 30, 2006.

My home address remains as before, I can be contacted at:

Schwarzer Stock 9, D-36110 Schlitz, Germany;
phone *49 6642 6266

My new e-mail address will be communicated in due course.

In my retirement, I hope to continue with, or rather resume, work on Plecoptera taxonomy. Please keep me on your mailing lists for your Plecoptera publications!

The stonefly collection of the Schlitz institute (specimens and literature) which the late J. ILLIES and myself gathered will be kept in my home for some years, until eventual deposition in a museum.

Peter Zwick

Where do Plecoptera belong ?

Among extant insects, Plecoptera as an order are unmistakable, but there are only few apomorphies to place them in a phylogenetic system of insects. Their relationships with other Neoptera remain uncertain, and widely divergent opinions have been published. OLIVER ZOMPRO, one of the authors of the recently discovered order Mantophasmatodea has now presented his view of the case:

Zompro, O. (2005): Inter- and intraordinal relationships of the Mantophasmatodea, with comments on the phylogeny of polyneopteran orders (Insecta: Polyneoptera). – *Mitteilungen des Geologisch-Paläontologischen Instituts der Universität Hamburg* 89: 85-116.

Oliver can be contacted at:

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P.O.Box 165, D-24302 Plön, Germany
e-mail: o.zompro@t-online.de

Peter Zwick

Pseudoretirement of Richard Baumann

I will officially retire from my position at Brigham Young University on September 1, 2006. However, I will be able to maintain my workspace and research equipment at the Monte L. Bean Life Science Museum for a minimum of three years. At this time, I will work to complete many projects on stonefly systematics in concert with colleagues and friends. The stonefly collection will continue to grow and to be curated by Dr. C. Riley Nelson, Dr. Shawn Clark, and myself. I plan to be a major “player” in stonefly research in North America for many years. My contact information at the museum beginning in 2006 is the following:

Dr. Richard W. Baumann
Curator Emeritus of Insects
Monte L. Bean Life Science Museum
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RECENT PLECOPTERA LITERATURE (CALENDAR YEAR 2005 AND EARLIER. Papers made available after March 2006 will be included in the next issue). **If papers were missed, please bring these to the attention of the Managing Editor.**

- Acuña, V., I. Muñoz, A. Giorgi, M. Omella, F. Sabater, and S. Sabater. 2005. Drought and postdrought recovery cycles in an intermittent Mediterranean stream: structural and functional aspects. *Journal of the North American Benthological Society* 24: 919-933.
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- Böhmer, J., C. Rawer-Jost, and A. Zenker. 2004. Multimetric assessment of data provided by water managers from Germany: assessment of several different types of stressors with macrozoobenthos communities. *Hydrobiologia* 516: 215-228.
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