PERLA

Annual Newsletter and Bibliography of
The International Society of Plecopterologists

***Brachyptera seticornis* (Klapálek), Slovenia**
Photograph by Bill P. Stark

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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 27 (2009) in one of the following ways, in order to be kept on the mailing list for PERLA 28 (2010): (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 when 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.

The International Joint Meeting on Ephemeroptera and Plecoptera 2008

XVI International Symposium on Plecoptera
XII International Conference on Ephemeroptera

Staatliches Museum für Naturkunde
June 8–14, 2008 Stuttgart, Germany

The XII International Conference on Ephemeroptera and the XVI International Symposium on Plecoptera was held **8-14 June 2008 at the Staatliches Museum für Naturkunde in Stuttgart (SMNS), Germany.** The **SMNS** is dedicated to the scientific study of the Earth. It was established in 1791 through a decree by Carl Eugen, Duke of Württemberg, and is one of the oldest and most prominent natural history museums in Europe. **Willi Hennig**, founder of phylogenetic systematics was on the staff of **SMNS** from 1963 until his death in 1976.

More than 120 participants (including 20 accompanying persons) from 36 countries registered for the meeting. See map below.

Overall, the meeting was a magnificent success, bringing together well-established scientists of international note, students, enthusiasts of the two taxonomic groups, and others from throughout the world. All aspects of the meeting from the efficient registration, the highly informative paper and poster sessions, the "snack breaks", the grand banquet at Schloss Rosenstein, and the productive field trips were exceptional. **Dr. Arnold Staniczek**, his staff, and colleagues made this meeting an experience to remember. They are heartily thanked.

Stuttgart was a hub of action during the meeting, especially with the European Soccer Cup championship games creating additional excitement. The program for accompanying persons included remarkable enjoyable events that were, however, intense! These activities included guided tours of museums, famous nearby cities, castles, zoos and botantical gardens, options of attending operas, symphony orchestras, ballets, etc!

The Conference dinner at Schloss Rosenstein was a feast to behold. Schloss Rosenstein was built in 1822-1830 by Giovanni Salucci and served as a manor house for King Wilhelm I. It currently houses biological exhibitions. At the dinner special recognition and awards from the Standing Committee of the International Society on Plecoptera were presented:

The grand banquet at Schloss Rosenstein.

Dr. Arnold Staniczek was honored by the Standing Committee with a certificate of appreciation for his "hard work and dedication in organizing the successful" meeting.

We again thank **Dr. Staniczek**. In fact Arnold has **already** accomplished the publication of sixty-five manuscripts produced from the meeting. It will be available in early 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,* ed. A.H. Staniczek, Aquatic Insects, 31 (2009), Supplement 1.**

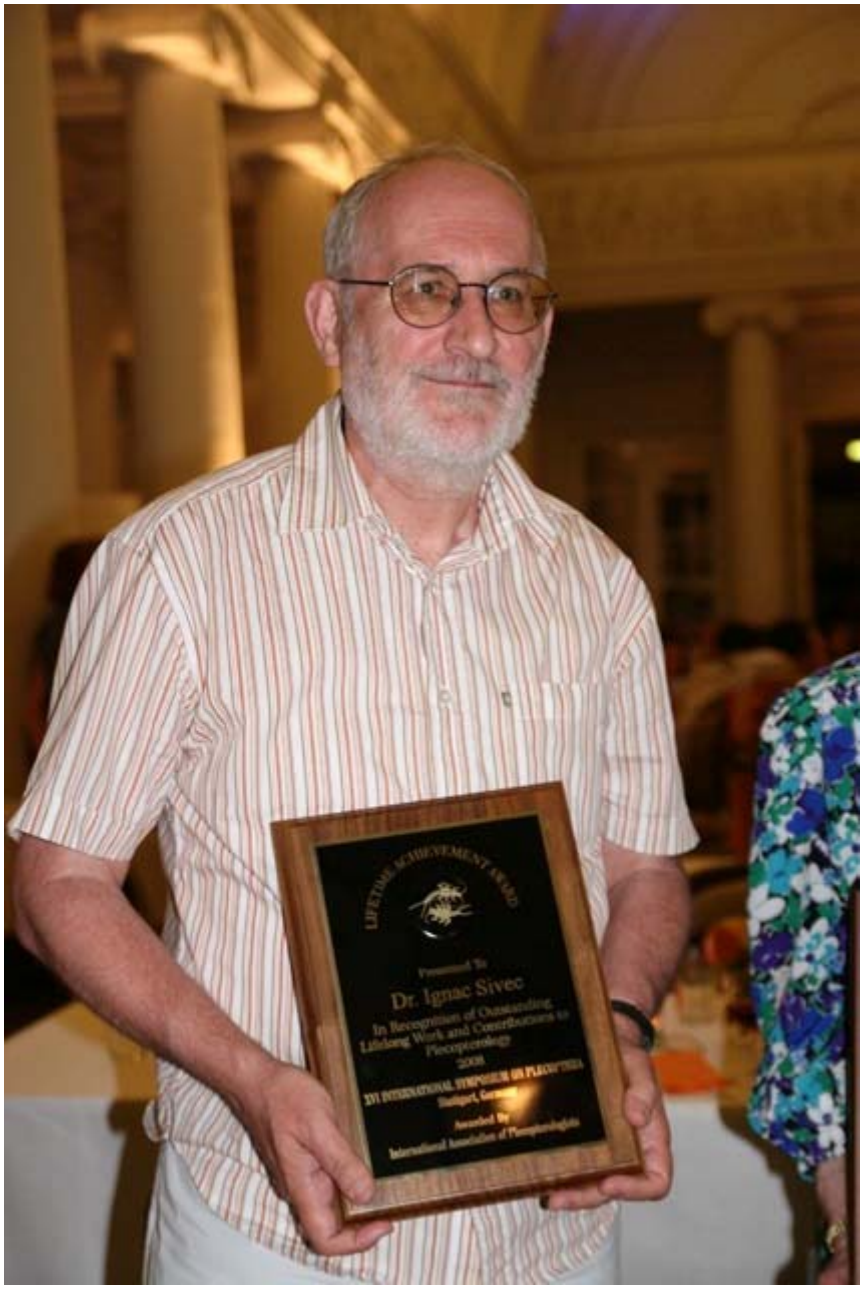
Dr. Arnold Staniczek with his classic smile is heartily thanked for his hard work by Dr. John Brittain on behalf of the Standing Committee of the International Society of Plecopterologists.

Drs. **Richard W. Baumann, Kenneth W. Stewart,** and **Peter Zwick** were presented awards in appreciation from the Standing Committee of the International Symposium on Plecoptera for their hard work and dedication in serving as editors of ***Perla*** for many years.

Drs. Richard W. Baumann and Peter Zwick accepting their awards.

Dr. Kenneth W. Stewart accepting his award.

The Standing Committee of the International Society of Plecopterologists awarded Lifetime Achievement Awards in 2008 to professors **Peter Harper** and **Ignac Sivec** (see following details). These two scientists of international reputation joined thirteen other colleagues to receive this honor. **Dr. Stan Szczytko** arranged the production of the plaques.



Dr. Ignac Sivec with his award.

The two conference trips included a tour of one the best Cistercian monasteries in Germany, the Bebenhausen Monastery and the university city of Tübingen, where enjoyable boat trips on the Neckar occurred. Tübingen has the highest quality of life of all cities in Germany. The Post-Conference field trip into the southern Black Forest (Schwarzwald) included the Wutach Gorge and Lake Titisee. Collecting was outstanding and so was the lunch.

The beautiful scenery of the Wutach Gorge, Germany.

The International Society of Plecopterologists awarded more than US $3,400 to Tomas Ruginis, Lithuania, Maribet Gamboa, Venezuela, Olga Loskutova, Russia, and Giovany Guevara Cardona, Chile to attend the meeting in Stuttgart. **Dr. John Brittain** directed this process.

At the meeting, the stonefly community greatly missed Dr. **Lidija Zhiltzova**, who could not attend the meeting because of injuries suffered during a criminal attack. We all wish her continued recovery and most healthy and successful coming years.

Below are the papers or posters on Plecoptera that were presented at **XVI International Symposium on Plecoptera from 8-14 June 2008 at the Staatliches Museum für Naturkunde in Stuttgart, Germany**:

Oral presentations III: Biogeography, Distribution & Faunistics

LORENZ, AW; TIERNO DE FIGUEROA, JM; LOPEZ RODRIGUEZ, MJ; MURPHY, J; & GRAF, W.
Biogeographical and autecological pattern of European Plecoptera
KOESE, B
Stoneflies of the Netherlands

POPIJAC, A & SIVEC, I.
Diversity and distribution of stoneflies in the area of Plitvice Lakes National Park and along Mediterranean river Cetina (Croatia)

IV: Phylogeny, Systematics & Taxonomy

Invited Lecture

ZWICK, P.
The Plecoptera - who are they?

Other papers:

BAUMANN, RW & KONDRATIEFF, BC.
The Holarctic genus *Oemopteryx* Klapalek (Plecoptera: Taeniopterygidae), with a new species from California and Oregon

STRADNER, D; WEISS S & GRAF, W.
Molecular phylogeny of the stonefly genus *Siphonoperla* Zwick, 1967 (Chloroperlidae)

SZCZYTKO, SW & KONDRATIEFF, BC.
The Eastern Nearctic *Isoperla bellona* complex

Oral presentations V: Morphology, Ultrastructure & Physiology

NELSON, CH.
Surface ultrastructure of the tarsus and pretarsus of Plecoptera (Arthropoda: Hexapoda)

Oral presentations VI: Biogeography, Distribution & Faunistics

DeWALT, RE; CAO, Y; & TWEDDALE, T.
Reconstruction of historical distributions of stoneflies (Plecoptera) using museum records

Oral presentations VII: Ecology, Life History & Reproduction

RUPPRECHT, R.
Attempts to re-colonize water insects in some German streams

Oral presentations VIII: Phylogeny, Systematics & Taxonomy

Invited lecture

KRELL, Frank-Thorsten
ZooBank and the next edition of the Code - new developments in zoological nomenclature

DeWALT, RE; EADES, D; & MAEHR, MD.

Plecoptera Species File: a research resource for the future

BAUMANN, RW & KONDRATIEFF, BC.
Studies on the Holarctic Subfamily Brachypterainae (Plecoptera: Taeniopterygidae) using the Scanning Electron Microscope

Oral presentations IX: Ecology, Life History & Reproduction

KAZANCI, N & DÜGEL, M.
Use of optimum and tolerance values to predict impacts of climate change on aquatic insect distribution

KRNO, I & HOLUBEC, M.
Effects of land use on the stonefly bioassessment metrics

YOSHIMURA, M.
Comparison of stream benthic invertebrate particularly stonefly assemblages in the temperate forest in Japan in relation to forest types

Oral presentations X: Biogeography, Distribution & Faunistics

RUGINIS, T.
A review of Plecoptera species distribution in Lithuania

Oral presentations XI: Morphology, Ultrastructure & Physiology

WILLKOMMEN, J.
The morphology of the pterothorax of Ephemeroptera, Odonata and Plecoptera, and the homology of wing base sclerites and flight muscles

AMORE, V; CABRERA HURTADO, J; TERUEL ARTACHO, M; TIERNO DE FIGUEROA, JM; & FOCHETTI, R.
Do really all stoneflies have hemocyanin?

Oral presentations XII: Biogeography, Distribution & Faunistics

SURENKHORLOO, P.
Stoneflies of Mongolia (updated species list)

TESLENKO, VA.
A review of Plecoptera species distribution in the Far East of Russia

ZHILTZOVA, LA. (given by N. KLUGE).
Zoogeographic features of the Systellognatha (Plecoptera) fauna of Russia and adjacent countries

Poster Session I
Phylogeny, Systematics & Taxonomy

ISOBE, Y & UCHID, AS.
Japanese species of the genus *Oyamia* (Plecoptera: Perlidae) and *O. nigribasis* from Korea

SIVEC, I & STARK, BP.
Open access policy in stonefly research

TURCSANYI, I; JACKSON, S; BAGLEY, M; FRIEDMAN, E; SWENSON, S; ROTH, A; DRISKELL, A. & WEIGHT, L.
Integration of DNA barcoding approaches into aquatic bioassessments: case of mayflies and stoneflies

VINÇON, G & MURANYI, D.
Revision of the *Rhabdiopteryx neglecta* species group (Plecoptera: Taeniopterygidae)

ROSCISZEWSKA, E & RZONCA, R.
Ultrastructure of Antarctoperlarian stoneflies reproductive systems with special reference to the organization of the larval ovarioles

TAMURA, F; ISOBE, Y; & OISHI, T.
A comparative SEM study on the setae of larval legs in four families of Plecoptera

BOJKOVA, J.
Collections of the Czech Republic stoneflies by E. Křelinová and J. Raušer

CHERCHESOVA, SK; SHIOLOSHVILI, MN; & HAZEEVA, LA.
Zoogeographic characteristics of the stonefly fauna of North Ossetia (the River Terek Basin)

FOCHETTI, R & TIERNO DE FIGUEROA, JM.
The Italian stonefly fauna

OGDEN, J & GIBERSON, DJ.
Plecoptera diversity and emergence phenology in boreal forest streams of the Cape Breton Highlands, Nova Scotia, Canada

SPACEK, J.
Notes on the distribution of some interesting Ephemeroptera and Plecoptera species from the Czech Republic

ZUÑIGA DE CARDOSO, MC; DIAS, LG; MARTINEZ, D; ZABALA, G; & BACCA, T.
The first record of *Claudioperla* Illies (Plecoptera: Gripopterygidae) from Colombia

ZUÑIGA DE CARDOSO, MC & STARK, BP.
The status of the order Plecoptera (Insecta) from Colombia

Poster Session II
Ecology, Life History & Reproduction

BEKETOV, MA & LIESS, M.
Potential of 11 pesticides to initiate downstream drift of stream macroinvertebrates

BOJKOVA, J & HELESIC, J.
Spring fens as a unique biotope of stonefly larvae

FENOGLIO, S; BO, T; LOPEZ RODRIGUEZ, MJ; TIERNO DE FIGUEROA, JM; & MALACARNE, G.
Preimaginal feeding habitus of *Isoperla carbonaria* Aubert, 1953 (Plecoptera, Perlodidae) in Val Po, North-Western Italian Alps

GAMBOA, MA; CHACON, MM; & SEGNINI, SE.
Composition of the diet of four species of *Anacroneuria* (Plecoptera: Perlidae) in the Venezuelan Andes

GUEVARA, G; BOHORQUEZ, HF; REINOSO, G. & VILLA, FA.
Plecoptera size distributions in a tropical river (Tolima, Colombia) during two contrasting seasons

GUEVARA, G; GODOY, R & JARA, C.
Stonefly shredders associated with litter breakdown in first-order streams of southern Chile

HROVAT, M; URBANIC, G & SIVEC, I.
Community structure and distribution of Ephemeroptera and Plecoptera larvae in selected karst rivers in southeast Slovenia

KOZACEKOVA, Z; TIERNO DE FIGUEROA, JM; LOPEZ RODRIGUEZ, MJ; & DERKA, T.
Life history of a population of *Protonemura intricata* (Ris, 1902) (Insecta, Plecoptera) in a constant temperature stream in Central Europe

LOPEZ-RODRIGUEZ, MJ; TIERNO DE FIGUEROA, JM; FENOGLIO, S; BO, T & ALBA-TERCEDOR, J.
The role of three Perloidea species in a temporary stream in southern Spain: are they secondary or primary consumers?

LOSKUTOVA, OA.
Drift of stoneflies in the rivers of the European northeast of Russia

MANK, P & PEKARIK, L.
The most important microhabitat variables affecting the stonefly and mayfly communities in the East Carpathian Stream

SILVERI, L; TIERNO DE FIGUEROA, JM & MAIOLINI, B.
Life cycle of three species of Plecoptera in high altitude streams (Trentino, NE Italy)

STEWART, KW & ANDERSON, NH
The life history and nymphal generic character development of *Malenka bifurcata* (Claassen) (Plecoptera: Nemouridae) in an Oregon summer-dry stream

TÜRKMEN, G & KAZANCI, N
A research on assessment of habitat quality of streams in a national park by using Ephemeroptera, Plecoptera, Odonata and Trichoptera species

YOSHIMURA, AM.
Comparison of attracted time for light in Plecoptera

XVIth International Symposium on Plecoptera, 8-14 June, 2008, Stuttgart, Germany

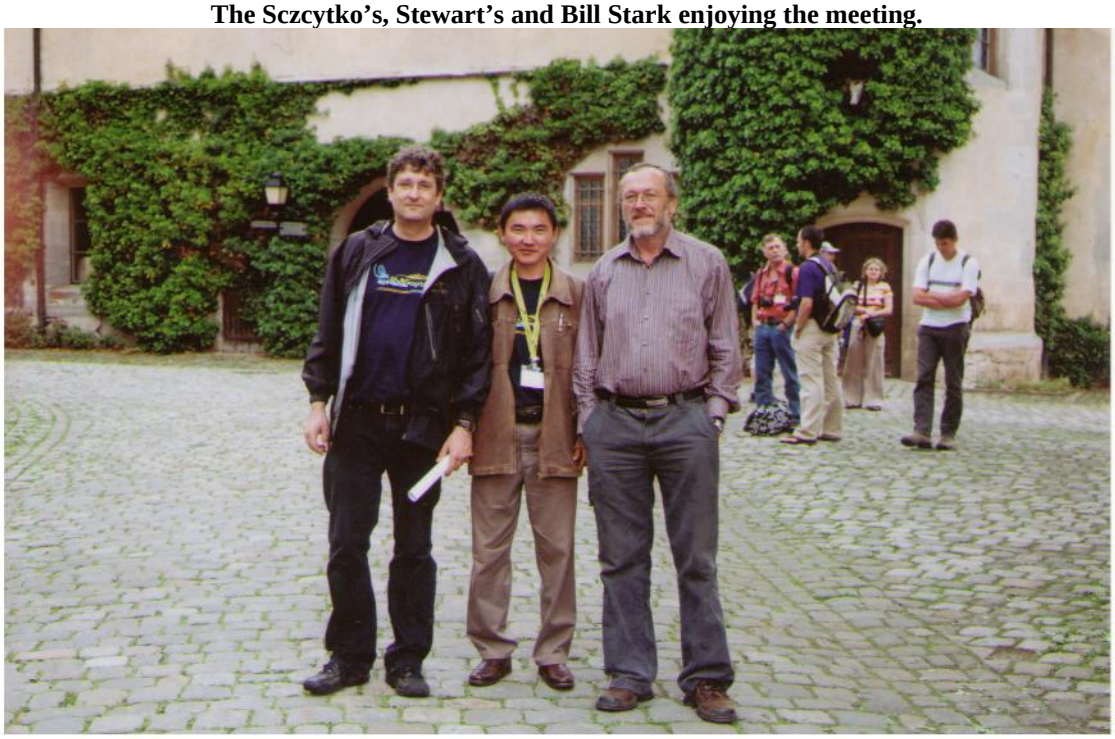
Participants of both the XII International Conference on Ephemeroptera and the XVI International Symposium on Plecoptera.

Drs. Arnold H. Staniczek and Jana Willkommen making sure registration was perfect.

The Brittain's and others enjoying the boat trip on the Neckar, Tübingen.

The remarkable publishing and Lifetime Achievement awardee tag team, Drs. Bill P. Stark and Ignac Sivec.

The Sczcytko's, Stewart's and Bill Stark enjoying the meeting.



Drs. Arnold Staniczek, Thomáš Soldán and Purevdorj Surenkhorloo. Purevdorj provided photographs for this issue.

The happy family of the convener of XII International Conference on Ephemeroptera and the XVI International Symposium on Plecoptera, Stuttgart, Germany.

Dr. Richard W. Baumann with his well-known beating sheet during the field trips.

2008 LIFETIME ACHIEVEMENT AWARDS

The Standing Committee of the International Society of Plecopterologists continued the practice begun at the XI Symposium in Treehaven, Wisconsin, USA, of presenting Lifetime Achievement Awards to Plecopterologists who have made exemplary contributions to our field over their professional lifetimes. Previous awards have been made to **Noel Hynes**, **Bill Ricker** (announced in Perla 11), **Jacques Aubert**, **Teizi Kawai**, **Ian McLellan** (announced in Perla 14), **Claudio Froehlich**, **Lidija Zhiltzova**, **Peter Zwick** (announced in Perla 17), **Kenneth Stewart**, **Elisabetta Ravizza Dematteis**, and **Carlaberto Ravizza** (announced in Perla 20). **Richard W. Baumann** and **Bill P. Stark** (announced in Perla 23). Adding to this distinguished list of scientists, the International Committee awarded Lifetime Achievement Awards in 2008 to professors **Peter Harper** and **Ignac Sivec**. Presentor of the award to Ignac Sivec was Bill Stark. Unfortunately, Peter Harper could not attend the meeting and his award was delivered to him in Quebec, Canada after the meeting.

Photograph provided by Dr. Bill Stark.

Pierre-Paul (Peter) Harper

Professor **Peter Harper** studied under the guidance of the distinguished scientist and also a Lifetime Achievement Awardee, **H. B. N. Hynes** for his Ph.D at the University of

Waterloo. Currently, he is "Professeur Honoraire" at the Université de Montréal. He has served this institution with great distinction for over 34 years.

LIST OF SCIENTIFIC PUBLICATIONS OF DR. PETER HARPER

Sivec, I., Harper P. P. and Shimizu, T. 2008. Contribution to the study of the Oriental genus *Rhopalopsole* (Plecoptera: Leuctridae). Scopolia 64:1-122.

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Harper, P. P. and F. Harper. 2003. Comparison of Nearctic and Palaearctic species groups of *Leuctra*: Affinities and Origin of the North American Fauna (Plecoptera: Leuctridae). pp. 219-223 *in* Gaino, E. (editors) Research Update on Ephemeroptera and Plecoptera, University of Perugia, Perugia, Italy.

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Harper, P. P. and F. Harper. 1997. Mayflies (Ephemeroptera) of theYukon. pp. 151-167 *in* Danks, H.V. and J.A. Downes (editors) Insects of the Yukon. Biological Survey of Canada (Terrestrial Arthropods), Ottawa, 1034 pp.

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Harper, F., N. H. Anderson and P. P. Harper. 1995. Emergence of lotic mayflies (Ephemeroptera) in the Cascade Range of Oregon. Proc. VIIth Internat. Conf. Ephemeroptera. Current Directions in Research in Ephemeroptera. Toronto: Canadian Scholars' Press, pp. 207-222.

Harper, P. P. and M. Lauzon. 1994. The life cycle of *Serratella deficiens* (Morgan)

(Ephemeroptera: Ephemerellidae) in Oakville Creek in southern Ontario. Proc. Entomol. Soc. Ontario 125:13-17.
Harper, P. P. and W. E. Ricker. 1994. Distribution of Ontario stoneflies (Plecoptera). Proc. Entomol. Soc. Ontario 125: 43-66.
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Photograph provided by Dr. Bill Stark.

Dr. Ignac Sivec

Dr. Ignac Sivec completed his Ph.D at the University of Sarajevo, Bosnia. His dissertation was the "Taxonomic, zoogeographic and phylogenetic generic relationships

within subfamily Perlinae (Insecta: Plecoptera) of the World." He served in the capacity as Curator, Director, and Vice Director of the Slovenian Museum of Natural History from 1979-2002.

The following information was modified from Dr. Sivec's web site (*http://www2.pms-lj.si/staff/entomology/sivec.html*). Please consult this source for a complete listing of Dr. Sivec's many scientific contributions.

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ANNOUNCEMENTS

The published proceedings from the **XI International Conference on Ephemeroptera, XV International Symposium on Plecoptera** held during August 2004 at Flathead Lake Biological Station, Montana, U.S.A. is now available:

Hauer, F. R., J. A. Stanford, and R. L. Newell (editors). 2008. International advances in the ecology, zoogeography, and systematics of mayflies and stoneflies. University of California Publications in Entomology 128: 1-412.

The volume is available from University of California Press:
http://repositories.cdlib.org/ucpress/ucpe/vol_128_InternationalAdvances_MayfliesandStoneflies/

and the volume (7.9 MB, PDF File) is available online at
http://repositories.cdlib.org/ucpress/

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

NAPS-9
Sagehen Creek Field Station
22-25 June 2009

The next meeting of the North American Plecoptera Symposium will be at the University of California, Berkeley Sagehen Creek Field Station. Information about Sagehen is available at their website (http://sagehen.berkeley.edu). The costs (cabin space, food and registration) for the 3 days will be $245.00 per person, payable by check or cash at registration. We have reserved 36 places in the cabins so respond quickly (see below) for one of those. Some are already reserved. Bring linens or sleeping bag, pillow, towel and a flashlight. There will be separate cabins for ♂♂ and ♀♀. Anyone having particular food requirements should notify Bill Shepard so the caterer can be advised. Those wanting to camp will find campgrounds located about 10 miles southeast of Sagehen. We recommend Boca Reservoir or Prosser Creek Reservoir.

There is usually an extreme fire danger in the summer and the surrounding forests have a fire ecology. Thus, there is absolutely NO SMOKING at Sagehen, even in your own car. If you must smoke, you have to drive out to the highway. The weather is likely to be hot and dry during the day, but be prepared for freezes at night and the occasional summer rainstorm. There will be a risk form to be signed at registration. The risks can include exposure to hanta virus and Lyme disease, but the most common malady is a twisted ankle due to uneven terrain. No food can be kept in your cabin or car due to the high probability of attracting rodents or bears. For similar reasons, no pets are allowed.

The schedule is listed below. An afternoon of collecting is planned for Wednesday 22 June. Due to the abundance of good collecting sites around Sagehen in all directions, there will be no organized trip involving everyone. However, there will be a list of locations that have been productive in the past. Additionally, Andy Sheldon has offered to guide anyone who wants to hit springs in the upper Sagehen Basin. Sagehen Creek at the station is also quite good for stoneflies and other aquatics.

Our plans now are for talks to be 20 minutes long, including time for questions. However, they might be cut to 15 minutes if there are sufficient submissions.

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. 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.

Please send Bill Shepard (william.shepard@csus.edu) notice of attending and Andy Sheldon (andylsheldon@comcast.net) abstracts of talks by **15 February 2009**.

XIII International Conference on Ephemeroptera and the XVII International Symposium on Plecoptera in Japan in 2011

The proposal to host the **XIII International Conference on Ephemeroptera and the XVII International Symposium on Plecoptera** in Japan in 2011 was accepted at the Stuttgart meeting. Drs. Yasuhiro Takemon and Koji Tojo will organize the meeting. It will be held at Kiyosato, a town at the base of Mt. Yatsugatake in the Yamanashi Prefecture, Japan. The Joint Symposium will be held at the Sei-sen-ryo Lodge. It is not too early to start planning your trip to Japan and your future scientific presentations. Additional information is now available on the website: http://cse.ffpri.affrc.go.jp/yoshi887/jointconference2011.html Please contact Drs. Yasuhiro Takemon and Koji Tojo for further information:

takemon@wrcs.dpri.kyoto-u.ac.jp
ktojo@shinshu-u.ac.jp

Dr. Yasuhiro Takemon, one of the conveners of the 2011 meeting in Japan.

ELECTRONIC AVAILABLITY OF PERLA

It has been brought to the attention of the **Standing Committee** on several occasions by members that ***Perla*** should become available only in electronic form. If the membership is interested in this approach, please contact any member of the **Standing Committee** and provide your opinion. Currently, on the website **PLECOPTERA SOCIETY OF NORTH AMERICA** hosted by **Dr. Edward DeWalt,** http://plsa.inhs.uiuc.edu/plecoptera/Perla.aspx the last four issues of ***Perla*** **2005-*Perla* 2008** are available as a pdf. ***Perla*** **2009** will also become available on this site.

NEW MEMBER OF THE STANDING COMMITTEE INTERNATIONAL SOCIETY OF PLECOPTEROLOGISTS

Dr. J. Manuel Tierno de Figueroa is a new member of the Committee.

Dear colleagues,

The aim of my message is to acknowledge again your invitation for being a member of the Plecoptera committee, this time to all the members of the committee. As I told to Drs. Stewart and Brittain, it is for me a great honour and pleasure, and I will be very happy to collaborate with all of you in any aspect related to the committee and its activities.

Yours sincerely,

Dr. J. Manuel Tierno de Figueroa
Dpto. de Biología Animal
Facultad de Ciencias
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Telf.: 958 241000 Ext: 20099
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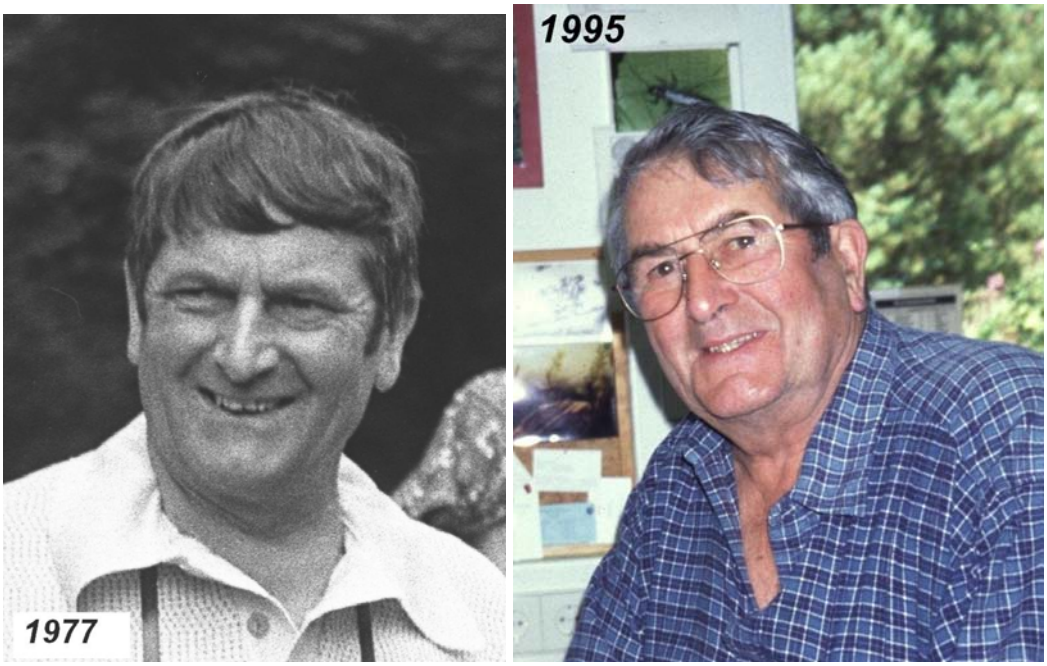
Obituary

Ian Dudley McLellan
22.2.1924 - 28.11.2008



Ian D. McLellan was born in the small coastal town of Westport, South Island, New Zealand. The fourth son in a family of seven boys, in childhood he led an outdoor rural life, heavily influenced by, and revelling in the rich natural environment of mountains, forests and sea of the West Coast. At Westport Technical High School his strengths were in mathematics and sciences. He initially began training as a teacher in 1942 but World War II intervened and he joined the Royal New Zealand Air Force, training for aircrew in Canada and England. In 1944 he joined 75 (NZ) Squadron RAF and saw service over Europe. His most gratifying memories were associated with the dropping of emergency food supplies into parts of the occupied Netherlands in April and May 1945.

In 1946 Ian returned to complete his training in Christchurch as a schoolteacher and the following year took up a teaching position in Westport. After further experience in several schools in northern Westland he became Head of the Science Department at Buller High School, Westport, from which he retired in 1981.

He married Nancy Herd, whom he had known since schooldays, in 1946. They had two children, Alister and Christine. Nancy died in 1982. In 1985 he married Ngaire Beattie, who predeceased him in 1992.

The pre-World War II West Coast of New Zealand retained something of its nineteenth century pioneering, colonial heritage. Gold rushes, timber milling and coal mining were the exploitative industries which dominated the area, as well as sheep and cattle farming. Hunting and fishing were important influences on his early life and he retained these interests as a schoolteacher. In particular the well-established brown trout fishing rivers of Westland attracted him. He quickly realised that knowledge of freshwater entomology would enhance his angling skills. A natural aptitude for careful observation soon led him to an appreciation for the taxonomic and ecological work which had already been done, largely by English biologists and visiting fly fishermen.

In the early 1960's he became particularly interested in stoneflies and soon discovered that entomologists working in New Zealand at that time were committed largely to ecological and conservation issues in which plecopteran taxonomy made up only a small part. The opportunity for an independent worker with a rich and largely undescribed stonefly fauna almost literally on his doorstep was there waiting for him.

In 1966, Joachim Illies during his Plecoptera collecting tour in the southern hemisphere visited and collected with Ian whom he invited to be a visiting scientist at Schlitz, Germany. During the year at Schlitz, Ian's revision laid the foundations of the taxonomy of Australian Gripopterygidae. The present subfamily classification follows Ian's 1977 paper. During his time in Germany, Ian also fished and hunted European fauna that has not been introduced to New Zealand, especially pike, carp, and roedeer, and collected hair and feather samples of exotic animals, for example squirrel and badger to

tie artificial trout flies. Ian and Nancy became close friends of staff and visitors of the Schlitz institute, especially Teizi Kawai (Japan) and W. D. Williams (Australia). Many Schlitz citizens missed the McLellans when they returned home in 1968.

From then on, Ian's scientific activities concerned the entire southern hemisphere, although the New Zealand stonefly fauna always remained at the core of his work. Ian attended the 4th International Symposium on Plecoptera at Abisko/Sweden in 1968 and several subsequent international symposia. At the 12th International Symposium on Plecoptera in Lausanne (1995) he was awarded the Plecoptera Lifetime Achievement Award. Ian's warm-hearted cheerful way, his knowledge and experience earned him many friends from all over the world. Whenever there was an opportunity, Ian visited Schlitz where he was always welcome, like a family member. His visits were always enjoyable and scientifically rewarding.

In his many publications, Ian proposed two new subfamilies of Plecoptera, named or co-authored 20 new stonefly genera and over 100 new species from the southern hemisphere. However, Ian's interest and activities were by no means restricted to Plecoptera. He was involved in conservation projects and collected and knew many aquatic insects other than stoneflies. For example, he discovered *Nothohoraia micrognathia* Craig, New Zealand's most unusual net-winged midge, and revised the Thaumaleidae, naming 9 new species and one new genus from New Zealand. *Podaena maclellani* (Zwick, 1975) (Col.: Hydraenidae), *Stenoperla maclellani* Zwick, 1979 (Plec.: Eustheniidae), and *Zelandopsyche maclellani* McFarlane, 1981 (Trich.: Oeconesidae) from New Zealand were named in Ian's honour.

Students of aquatic insects, especially stoneflies, lost and sincerely miss a most amiable colleague, close friend and very successful scientist whom they will always remember.

Terry Hitchings (Christchurch), Peter Zwick (Schlitz)

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MEMBER NEWS

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

I have been collecting and rearing stoneflies since arriving at Paradise, CA in May 2006. My research continues to focus on intersexual vibrational communication and as of August 2008, has recorded 2,697 signals from 18 species representing five California stonefly families. Production taxonomy duties take up much of my time; so anyone wishing to assist in the analysis is more than welcome (help!).

My interests in Perlodidae taxonomic questions have expanded. These include an interesting *Isoperla* larval morphological project to better understand the California species. I have been applying the methods of Wisconsin *Isoperla* specialists, Hilsenhoff & Billmyer (1973) using the maxillae with associated lacinia, galea and palps to aid in species determination (See *Isoperla baumanni* Figure below). To examine the maxillae, I suggest slide-mounting the structure using a clearing agent like CMC-10. Other nearby stream populations of potential interesting species-level larval morphological projects include: *Skwala americana* and *S. curvata; Kogotus nonus* and *Rickera sorpta; Cultus pilatus* and *C. tostonus; Isoperla adunca, I. baumanni, I. bifurcata, I. fulva, I. miwok, I. pinta* and *I. quinquepunctata.*

I continue to collect larval series for life history research but find these projects difficult to complete and so invite prospective students to take them over by visiting the ABL and possibly pursuing a Masters degree. The ABL has limited work space and one graduate student could work part-time in sample production to help with the costs of their education.

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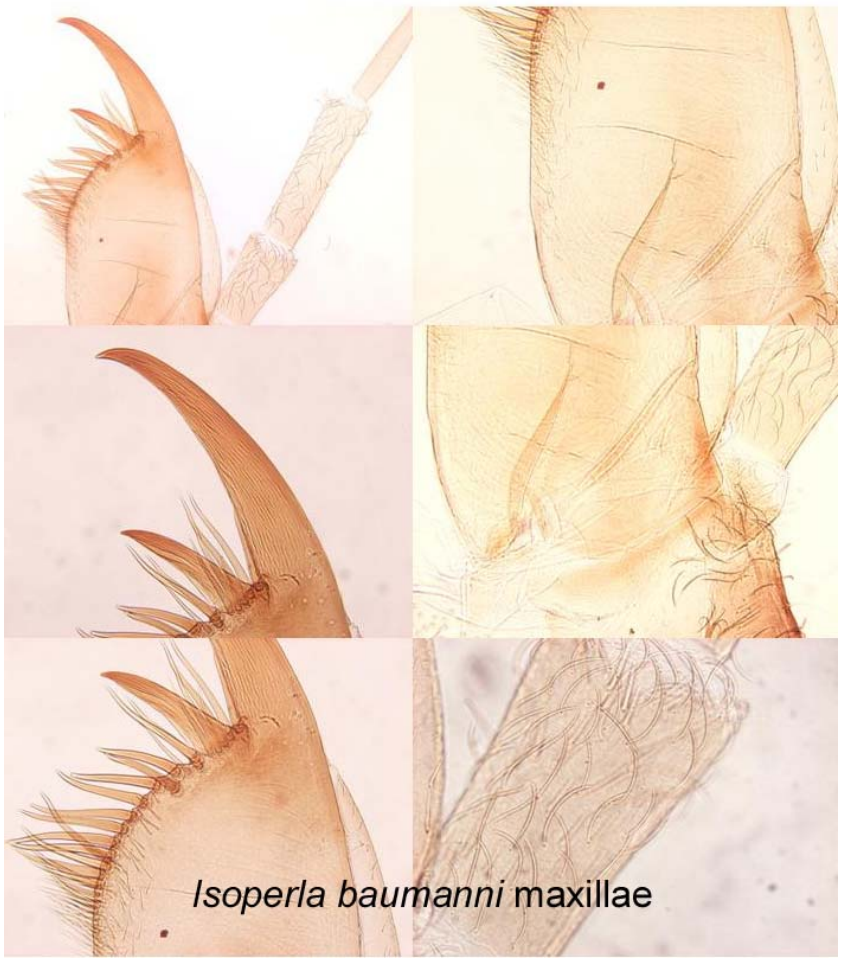
Isoperla baumanni maxillae

Jane Earle, Research Associate Academy of Natural Sciences of Philadelphia, 20 Red Fox Lane, Mechanicsburg, PA, 17050, janeearle7@msn.com

Continuing studies of Pennsylvania stoneflies as of December 2009: an update of the Pennsylvania species list with additional records, locations and habitat information on rare species is ready for pre-publication review; GIS mapping of Pennsylvania A species; interpretation of distribution maps in relation to ancient and present day river flow directions; stonefly tolerance to acid deposition and coal mine drainage.

Also a publication in April 2009 issue of Entomological News on stoneflies of a small stream in New Jersey. I am requesting unpublished records for Pennsylvania stonefly species to add to my database, and maps for distribution studies.

From the Dr. Romolo Fochetti Laboratory:

"I and my PhD student Valentina Amore are studying hemocyanin in the Plecoptera.We have extended the search for hemocyanin to several species of European Plecoptera families, with the aim to verify how this ancient trait is still retained across the order and to investigate why stoneflies have retained it."

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

In my "pseudoretirement" since 2000, I have continued to concentrate on increasing taxonomic resolution of stonefly nymphs of workable sized genera to species level, and life histories of species especially in Oregon temporary streams, with Norm Anderson. Genera or species recently published or in various stages of progress:

1. *Strophopteryx* nymphs with Jane Earle- published 2008.
2. *Malenka bifurcata*, *Ostrocerca dimicki* and *Soyedina producta* nymphs with Norm Anderson- published 2008.
3. *Sweltsa* nymphs with Bill Stark- in progress.
4. *Capnia* nymphs (California) and *Paracapnia disala* nymphs with Eugene Drake- in progress.
5. *Oemopteryx vanduzeea* nymphs.
6. *Megarcys* nymphs with Boris Kondratieff- in progress.
7. Life history and nymphal generic character development of *Sweltsa adamantea* with Norm Anderson- In Press Trans. Amer. Ent. Soc.
8. Life history and nymphal generic character development of *Malenka bifurcata* with Norm Anderson-In Press, Proceedings of last summer's International stonefly symposium- Aquatic Insects.

Also, working with Dick Baumann on additional records of stoneflies from Alaska to supplement those in the 2006 book, and other projects.

SHORT ARTICLES

Modeling of Stonefly Historical Distributions Using Museum Specimens

R. E. DeWalt, Yong Cao, Leon Hinz, and Tari Tweddale. Illinois Natural History Survey

The stonefly fauna of Illinois is probably the best known of any large geographic area in the world. The state supported at least 77 species historically (DeWalt 2008), but 20 have been extirpated and two are extinct (*Alloperla roberti* Surdick and *Isoperla conspicua* Frison) (DeWalt et al. 2005). The reason these statements are possible is due to the vast number specimens that have been deposited over the years by the likes of C. A. Hart, Benjamin D. Walsh, Theodore H. Frison, Herbert H. Ross, William E. Ricker, Donald W. Webb, and others. The 5,770 Illinois specimen records (= specimens in vials or on a pin), representing 41,399 specimens, have been used in several analyses of assemblage change within the state. Still, we do not know what lived in every drainage, nor can we say with confidence what factors contributed to their natural distribution.

We are currently modeling historic (pre-1970) distributions to produce natural occurrence probabilities for watersheds across the state and examining which local and watershed scale factors might explain these distributions. The model used was Random Forests (Cutler et al. 2007), which builds many dendrograms (>5,000) using random subsets of predictors and then averages the predictions. It eliminates "over-fitting" common to other modeling techniques and the use of multiple correlated preditors is not problematic. The model requires both presence and absence data. This technique uses bootstrapping to create an average result for each species. Additionally, it uses only 67% of the records for any one of thousands of iterations, and as such, validates itself with unused or "out-of-bag" sites. Three accuracy measures express the model's ability to effectively match prediction with observation. These include PCC = Overall Percentage Correctly Classified, Sensitivity = percentage of absences correctly classified, Kappa = measure of agreement between predicted presences and absences with observed presences and absences corrected for agreement that might be due to chance alone. Kappa values may be given the following qualitative ratings: ≤0= agreement less than chance alone, 0.01-0.2 = slight agreement, 0.21-0.4 = fair agreement, 0.41-0.60 = moderate agreement, 0.61-0.80 = substantial agreement, and 0.81-0.99 = almost perfect agreement.

Modeling efforts utilized INHS Insect Collection and Frison (1935, 1942) records for which the taxonomy was certain. Only spring and summer emerging species were modeled, a guild that experienced the greatest decline in Illinois (DeWalt et al. 2005). The work utilized 1,500 specimen records, resulting in a species presence/absence-by-site data matrix with 53 taxa and 203 unique locations. Negative records for a given species were derived from the positive records of other species available at the same time, e.g. the presence of *Perlesta* sp. nymphs or adults, but no *Agnetina,* would be regarded as a negative record for species of *Agnetina*. This precluded use of a large number of winter stonefly records since most of them would have been adult collections and could not, therefore, have an equal probability of obtaining nymphs of summer-emerging species.

Fifty-seven stream reach- and watershed-level variables were accumulated from an Illinois Department of Natural Resources dataset at the 1:100,000 scale for stream arcs, e.g., a stream segment confluence to confluence (Holtrop et al. 2005). These variables include climate parameters, slope, geology, soil types, presettlement vegetation, drainage area, stream width, modeled stream temperature, and drainage basin affiliation. The values of these variables are largely independent of human disturbance, and as such, are useful for modeling historic distributions.

We limited model entry to those species with eight positive records, resulting in 14 species being modeled. These included five perlodids, most of which are relatively abundant in Illinois, but may be restricted to certain regions or to streams of a given size. Seven species of Perlidae were modeled, their habitat needs spanning the full range of stream sizes available in Illinois. Several have experienced dramatic range reduction, two have been extirpated (DeWalt et al. 2005).

The performance of the models was assessed using four parameters: Overall Percentage Correctly Classified (PCC); Sensitivity, the percentage of presences correctly classified; Specificity, the percentage of absences correctly classified; and Kappa, a measure of agreement between predicted presences and absences with actual presences and absences corrected for agreement that might be due to chance alone. The values of Kappa may be categorized in the following way: ≤0= agreement less than chance alone, 0.01-0.2 = slight agreement, 0.21-0.40 = fair agreement, 0.41-0.60 = moderate agreement, 0.61-0.80 = substantial agreement, and 0.81-0.99 = almost perfect agreement (Citation).

Four reasonably good distribution models resulted from our research (Table 2). Sensitivity averaged 68% with *Clioperla clio* presences being predicted 100% of the time. The model predicted absences much better than it did presences (mean = 88%). Kappa values varied greatly, with three of four species having fair and substantial agreement of predicted with actual presences and absences.

We were also able to assess which variables were influential in the distribution of species (Fig. 1). *Acroneuria frisoni* was found to be eastern distributed, Ohio and Wabash rivers inhabiting, and a mostly glaciated landscape Illinois species. These predictors agree well with the distribution of the species in Illinois (Fig. 2). Other species were influenced by other combinations of variables, the specifics of which will be shared in the upcoming Proceedings of our latest mayfly & stonefly international meeting.

Of course, this modeling effort is focused on Illinois, so the results may not be reflective of the historical distributions across a wider geographic region. In this respect, it is a test case for expanding our efforts into all the Midwest of the USA and Canada. We have recently amassed all Midwest stonefly specimen records from regional museums, representing about 27,000 records. This is a rich source of distributional data that will undoubtedly improve our models for a number of species. Refinement of the models is possible through addition of more environmental variables and by use of models that require only positive data. The latter would allow us to use both historic and contemporary records simultaneously for all species, since we would not have to generate meaningful negative records that would force us to use only subsets of the data.

This work is significant in that it may allow for more accurate determination of loss of species from the region and states, help us determine what factors are important in species distribution, and help to inform a number of conservation related issues such as reintroduction efforts and the building of a "Red Book" for stoneflies for the region.

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Table 1. Stonefly species modeled, the number of unique positive and negative sites, and the total number of museum specimen records from the INHS Insect Collection. Conservation status is from DeWalt et al. (2005), increasing number indicates lower imperilment, SX=extirpated.

Taxon		**Records**		
Perlodidae	**Status**	**Positive**	**Negative**	**Museum**
Clioperla clio (Newman, 1839)	S2	19	175	71
Hydroperla crosbyi (Needham & Claassen, 1925)	S2	17	177	48
Isoperla bilineata (Say, 1823)	S5	64	130	273
Isoperla decepta Frison, 1935	S5	19	175	57
Isoperla nana (Walsh, 1862)	S5	9	185	33
Perlidae				
Acroneuria abnormis (Newman, 1838)	S2	30	164	260
Acroneuria frisoni Stark & Brown, 1991	S2	28	166	201
Agnetina capitata (Pictet, 1841)	SX	17	177	114
Attaneuria ruralis (Hagen, 1861)	SX	27	167	71
Perlesta decipiens (Walsh, 1862)	S5	23	171	132
Perlesta lagoi or *nitida*—or a new species	S5	18	176	31
Perlesta Banks, 1906	Most S5	36	158	79
Perlinella drymo Newman, 1839	S2	17	177	32
Pteronarcyidae				
Pteronarcys pictetii Hagen, 1873	S3	16	178	98
				1,500

Table 2. Results of Illinois stonefly distribution modeling, predicted and observed presence and absence and four measures of accuracy: Percentage Classified Correctly (PCC), Sensitivity, Specificity, and Kappa. See text for definition of measures of accuracy.

Species	**Predict Type**	**O_Pres**	**O_Abs**	**Total**	**PCC**	**Sensitivity**	**Specificity**	**Kappa**	**Agreemt**
Agnetina	**P_Pres**	12	6	18					
capitata	**P_Abs**	5	171	176	94	71	97	0.65	Substantial
		17	177						
Clioperla	**P_Pres**	5	15	20					
clio	**P_Abs**	0	175	175	92	100	92	0.37	Fair
		5	190						
Acroneuria	**P_Pres**	6	22	28					
frisoni	**P_Abs**	9	157	166	84	40	88	0.20	Slight
		15	179						
Isoperla	**P_Pres**	30	34	64					
bilineata	**P_Abs**	19	111	130	73	61	77	0.34	Fair
		49	145						

Figure 1. Predictors for one *Acroneuria frisoni*. Y axis is the log of probabilities, X axis is the value for environmental variables.

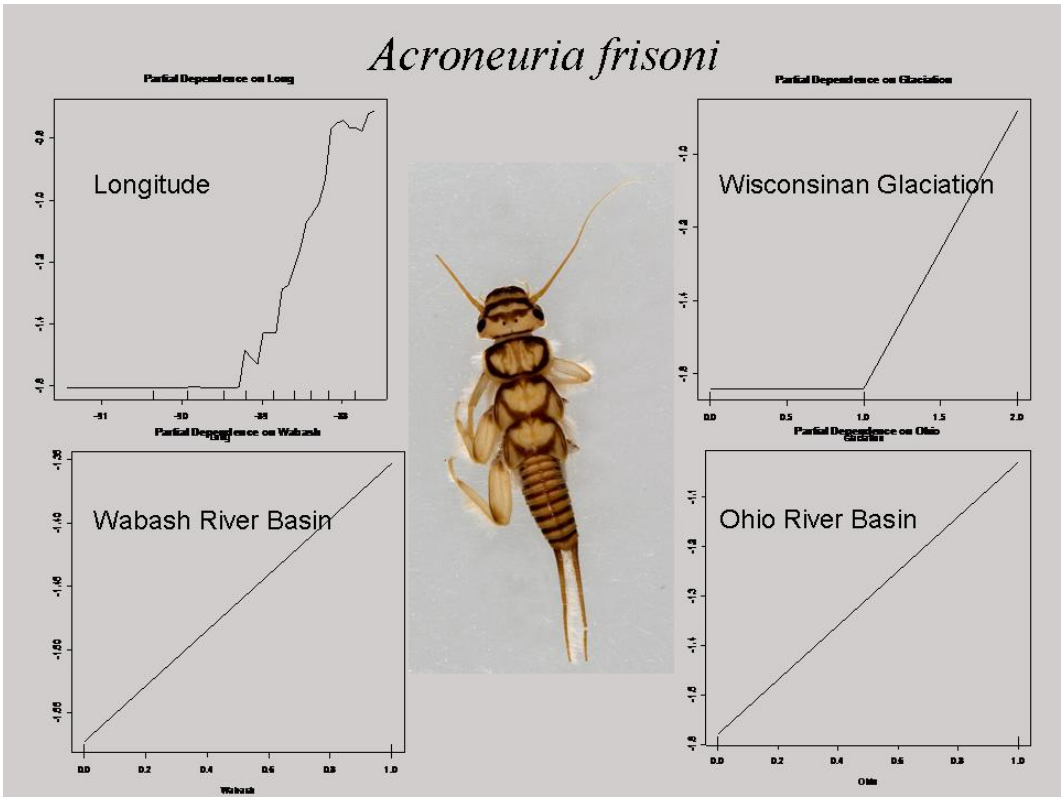
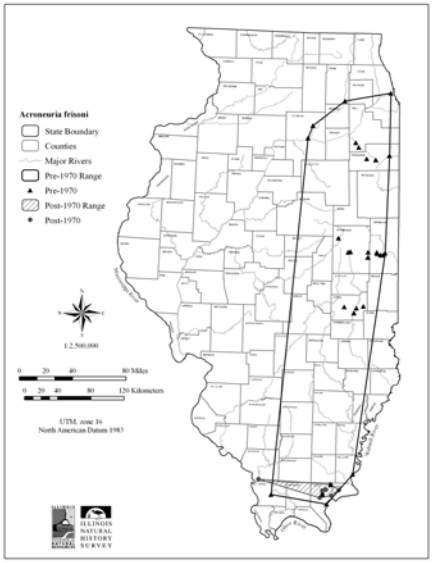


Figure 2. Historical and contemporary range for Frison's Stonefly.



Stonefly Collecting During the XVI International Symposium on Plecoptera, 2008

B. C. Kondratieff and R. W. Baumann, Colorado State University; Brigham Young University.

Traditionally, the participants of the Conference are taken on field trips to nearby representative aquatic habitats. Dr. Arnold Staniczek and his staff did not disappoint us. On Wednesday 11 June, Arnold led us on a wonderful mid-conference field trip to one of the best Cistercian monasteries in Germany, the Bebenhausen Monastery. A small nearby stream, the Goldersbach was sampled on 14 June. Additionally, Arnold and his family took us on a very productive Post-Conference field trip into the southern Black Forest (Schwarzwald) including the Wutach Gorge and Lake Titisee.

The authors collected the following 14 species of stonefly species during the two field trips, all typical regional species. Other collectors may have taken additional species. It is noted that this area received heavy rainfall in preceding weeks, possibly reducing diversity and abundances.

Bebenhausen Monastery field trip

Goldersbach
Tübingen-Bebenhausen

Amphinemura sulcicollis (Stephens), 6 ♂, 2 ♀.
Protonemura intricata (Ris), 1 ♀.
Leuctra albida Kempny, 6 ♂.
Isoperla oxylepis Despax, 1 ♀.

Post-conference field trip

Lotenbach
Lotenbachklamm
Bonndorf im Schwarzwald

Nemoura marginata (Pictet), 5 ♂, 5 ♀.
Protonemura intricata (Ris), 1 ♂.
Protonemura risi (Jacobson and Bianchi), 17 ♂, 5 ♀.
Amphinemura sulcicollis (Stephens), 4 ♂, 7 ♀.
Leuctra cingulata Kempny, 14 ♂, 5 ♀.
Siphonoperla torrentium (Pictet), 3 ♂.

Wutach River
at Gauchach River
Schattenmühle
Bonndorf im Schwarzwald

Nemoura marginata (Pictet), 1 ♂.
Amphinemura sulcicollis (Stephens), 9 ♂, 6 ♀.
Leuctra albida Kempny, 5 ♂, 1 ♀.
Leuctra cingulata Kempny, 1 ♂, 2 ♀.
Isoperla rivulorum (Pictet), 1 ♂, 4 ♀.
Perla marginata (Panzer), 9 ♂, 13 ♀.
Siphonoperla torrentium (Pictet), 3 ♂, 8 ♀.

Wutach River
Wutachmühle
Bonndorf im Schwarzwald

Amphinemura sulcicollis (Stephens), 9 ♂, 9 ♀.
Nemoura sp. 1 ♀.
Protonemura intricata (Ris), 2 ♂, 1 ♀.
Protonemura risi (Jacobson and Bianchi), 3 ♂, 2 ♀.
Leuctra albida Kempny, 5 ♂, 3 ♀.
Leuctra cingulata Kempny, 17 ♂, 13 ♀.
Leuctra inermis Kempny, 3 ♂, 2 ♀.
Isoperla grammatica (Poda), 8 ♂, 19 ♀.
Dinocras cephalotes (Curtis), 4 ♂.
Perla marginata (Panzer), 7 ♂, 10 ♀.
Chloroperla tripunctata (Scopoli), 1 ♂.
Siphonoperla torrentium (Pictet), 2 ♂.

We thank Peter Zwick for helping with some of the identifications. The above material is deposited in the collections of the Monte L. Bean Life Science Museum, Brigham Young University, Provo, Utah and C. P. Gillette Museum of Arthropod Diversity, Colorado State University, Fort Collins, Colorado.

Poem

Ode to *Bolshecapnia*

I beat over the sheet, and over the snow,
O *Bolshecapnia*, where do you go?

I beat up high and way down low,
O *Bolshecapnia*, where do you go?

I search in the trees, and look on the ground,
O *Bolshecapnia*, you're not to be found

I scan the snow, as I slip and slide,
O *Bolshecapnia*, where do you hide?

Through the stream and brush I stumble,
O *Bolshecapnia*, you make me so humble

Am I too early, or am I too late?
O *Bolshecapnia*, you are so great

I try once more under rocks and leaves,
but alas, only *Zapada cinctipes*

I leave this place in great despair,
never to collect again, I swear.

Then suddenly I feel alive
for the great *Isocapnia* will soon arrive.

R. Durfee, 2008

RECENT PLECOPTERA LITERATURE (CALENDAR YEAR 2008 AND EARLIER). Papers made available after 1 February 2009 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.

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