CURRENT RESEARCH ON PLECOPTERA

This section is intended to keep society members current on research in progress by other members, workers and students. Please use Editor Stewart's e-mail address (inside front cover) or conventional mail to submit a brief, informative description of your current work, for the next PERLA (23).

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Michael A. Chadwick has just finished his PhD at the University of Maine where he investigated benthic communities of intermittent streams with some particular interest in *Paranemoura perfecta* biology.

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Dr. Boris Kondratieff of Colorado State University and Ralph F. Kirchner are in the process of describing a new *Haploperla* from North Carolina.

2. With Dave Lenat and Fred Kirchner, is working on unique North Carolina stoneflies.

3. Is co-author with Bill Stark on the upcoming Western North American Naturalist Monograph paper "*Anacroneuria* of Mexico".

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Sandra J. Walde, Department of Biology, Dalhousie University, Halifax, NS, Canada, is beginning a research project on stonefly dispersal in Nova Scotia in an area where streams are isolated from each other and from other systems. The streams originate near the top of a basalt ridge suspected of being a refuge during the last glaciation, and they drain into the Bay of Fundy. She hopes ultimately to look at the impact of adult dispersal on population dynamics. She is trying to use stable isotopes as markers to estimate dispersal. She is consulting with Stan Szczytko on her local *Isoperla* species.
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Dr. Truman Sherk of Branford, CT is writing a paper on "Insect emergence from Findley Lake in the Cascade Mountains, USA, after early and late thaws".

Dr. Robert A. Cannings has recently finished a draft of a short overview of the families of British Columbia Plecoptera for a project he is working on with Geoff Scudder of the University of British Columbia on a treatment of BC insect families. It will include illustrated keys to adults and short summaries about the families. It is meant to be for the non-expert and will be put on the web.

Dr. Andy Sheldon is established in his Florida retirement place. He is preparing for his talk for the August, 2004, Flathead Lake Joint International Meeting of Mayfly and Stonefly workers. He is also looking at species and generic diversities among families of stoneflies at various spatial scales for a recent Forest Service Project in the Oachita Mountains of Arkansas.

Donna Giberson of the University of Prince Edward Island has been collecting stoneflies in the Canadian Province of Nunavut in recent summers, and will do so again in summer, 2004. She has set up a collaboraion with Nunavut Arctic College in Rankin Inlet where they will be monitoring a malaise trap beside a large tundra river all summer and collecting in the river itself. Donna and Ken Stewart plan to eventually publish on the stoneflies of this recently delineated province.

Ian McLellan of Westport, New Zealand is continuing his work on New Zealand Gripopterygidae genera *Apteryoperla, Megaleptoperla, Nesoperla* and the notonemourid genera *Spaniocerca* and *Spaniocercoides*. He has also started a new project on the South American gripopterygid genus *Notoperla.*

Ken Stewart, University of North Texas

!. A study of Nunanut stonefly diversity is underway with Donna Giberson of University of Prince Edward Island.

2. The manuscript for a book with Mark Oswood "Stoneflies of Alaska and Western Canada" is near completion, only awaiting the addition of hundreds of new regional locality records. The draft now has 106 full page plates and 696 figures covering the approximately 155 species of the northwestern corner of North America.

3. Doctoral student John Sandberg has completed his study of the systematics, drumming behavior, ecology and capacity of eggs for extended diapause of the stonefly genus *Isogenoides*. A dissertation and manuscript for publication is anticipated by Fall, 2004.

4. Ken and Stan Szczytko have submitted a manuscript describing a new *Isoperla* species from Oregon and are still searching for mature nymphs to be reared and described for *Isoperla gravitans*.

5. Ken recently collected a good series of the rare southern California stonefly *Calileuctra dobryi* with Eugene Drake, and several *Isoperla* nymphs for rearing in Oregon with Brian Armitage.

Dr. Bill Stark, Mississippi College.

1. With Ken Stewart has begun a project to rear and describe *Sweltsa* nymphs.

2. With Ignac Sivec is working on oriental stoneflies – Peltoperlidae, Perlidae, Styloperlidae and Leuctridae.

3. Has recently completed editing the 2nd Volume of "Stoneflies of Eastern North America" to include Rebecca Surdick's chapter on Chloroperlidae, Boris Kondratieff's chapter on Perlodidae (excluding *Isoperla*) and Bill's chapter on Perlidae.

4. Is working on an SEM study of Mississippi *Allocapnia* nymphs.

5 with Maria Zúñiga is working on a chapter of "Stoneflies of South America" as part of a project book on Aquatic Insects of South America.

Dr. Richard Baumann, Monte L. Bean Museum, Brigham Young University.

1. Working on species of the genus *Perlomyia* with Bill Stark.
2. Continuing on his revision of *Malenka*, planned for completion by 2006.
3. Continuing with revisions of several Nemouridae genera, including curation of the BYU collection.
4. A Western North American Naturalist monograph will soon be published that includes 3 major stonefly publications including "*Anacroneuria* of Mexico" by Bill Stark and Boris Kondratieff, "Revision of *Isocapnia*" by Dick and his former student J. T. Zenger and a "Revision of *Paracapnia*" by Bill Stark and Dick. Non-subscribers to Western N.A. Naturalist can purchase copies by contacting Dick Baumann at <richard_baumann@byu.edu>.

Dr. Barry Poulton and Bob Zuellig are working on "Stoneflies of Missouri".

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