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**Ed DeWalt**

## MEMBER NEWS

Dear Colleagues:

After the first steps we recently took towards a generic revision of the Capniidae, we need your assistance/cooperation to continue with this endeavor! From the East Palaearctic and Oriental regions, we are in need of material of any additional *Capnia* sensu lato species, regarding both specimens for morphological analyses and fresh material for DNA studies. From the West Palaearctic and the Nearctic, we are in need of fresh specimens for DNA, or any sequences newly retrieved especially type species of genera or the defined species groups. If you are willing to cooperate, please contact us on [d.muranyi@gmail.com](mailto:d.muranyi@gmail.com) or [maribetg@gmail.com](mailto:maribetg@gmail.com).

Besides gathering materials for the generic revision, our plans for 2015 are redefinition of *Eocapnia* Kawai, 1955, *Takagriopteryx* Okamoto, 1922 and *C. s.l. lepnevae* Zapekina-Dulkeit, 1960 (that can be assigned to the hitherto West Nearctic *nana* group sensu Nelson & Baumann 1989). In cooperation with **Weihai Li**, we are also redefining the concept of the genus *Capniella* Klapálek, 1920 and present an overview on Oriental Capniidae, with description of a new species. Regarding the recently defined *Zwicknia* Murányi, 2014, we are progressing with

species level taxonomy including morphology, bioacoustic and molecular studies: this year we will describe further Balkanian species in cooperation with **Louis Boumans, Tibor Kovács and Kirill Márk Orci. Bertrand Launay, Jean-Paul Reding, Alexandre Ruffoni and Gilles Vinçon** are working on the French species.

**Dávid Murányi and Maribet Gamboa**

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Dear Colleagues:

I have just prepared a red list for the United Kingdom Plecoptera. Thirty-four species were assessed with 1 Regionally Extinct, 1 Critically Endangered (Possibly Extinct) and 1 Vulnerable species. Four species were found to be Data Deficient.

Four species were found to be Nationally Rare and five species are Nationally Scarce.

Details of the various species are below. The full report will be published at <http://jncc.defra.gov.uk/page-3352> in the near future.

**Regionally Extinct**

Perlodidae *Isoperla obscura* (Zetterstedt)

**Critically Endangered (Possibly Extinct)**

Perlodidae *Isogenus nubecula* Newman

**Vulnerable**

Taeniopterygidae *Rhabdiopteryx acuminata* Klapálek

**Data Deficient**

Capniidae *Capnia atra* Morton, *Capnia vidua anglica* Aubert

Nemouridae *Nemoura lacustris* Pictet, *Protonemura montana* Kimmins

**Nationally Rare**

Nemouridae *Nemoura lacustris* Pictet, *Nemoura dubitans* Morton

Perlodidae *Isogenus nubecula* Newman

Taeniopterygidae *Rhabdiopteryx acuminata* Klapálek

**Nationally Scarce**

Capniidae *Capnia atra* Morton, *Capnia vidua anglica* Aubert

Nemouridae *Amphinemura standfussi* (Ris), *Protonemura montana* Kimmins

Taeniopterygidae *Brachyptera putata* (Newman)

**Craig Macadam**

Conservation Director

## ARTICLES

### **The 2014 *Sierraperla* (Plecoptera: Peltoperlidae) Pacific Northwest U.S.A. Expedition**

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During 13-30 May 2014, we traveled to the Pacific Northwest to obtain additional material of the western Nearctic peltoperlid genus *Sierraperla* to confirm that two different taxa exist. Most of our collecting was focused in Oregon and northern California, U.S.A. Fifty-seven sites in 23 counties were collected in these states, and collections were made at two additional sites from two counties in Idaho and Utah (Table 1, Fig. 1). Most adults and nymphs of *Sierraperla* were specifically collected in 95% ethanol for DNA extractions. A paper was written describing a new species of *Sierraperla* based on male aedeagal characters, egg characters, and molecular evidence (Stark et al. 2015). Additionally, fresh material of *Osobenus yakimae* (Hoppe) allowed us to describe the distinctive epiproctal structures of this Pacific Northwest species (Sandberg et al. 2015) and specimens of the banded-wing phenotype of *Moselia infuscata* (Claassen) were collected for DNA barcode (Cytochrome c Oxidase subunit I [COI]) analysis (Gill et al. 2015).

Other stonefly species were either preserved in 70-95% ethanol or returned to Mississippi College, Colorado State University or Paradise, California for adult rearing. Most adults were collected by using beating sheets (DeWalt et al. 2014). The scanning electron micrograph was produced by a JEOL JSM-6500F Field Emission Scanning Electron Microscope (FESEM) at the Central Instrument Facility, Imaging Laboratory, Colorado State University, Fort Collins, Colorado (<http://cif.colostate.edu/imaging-laboratory/>).

A total of 3,059 stoneflies representing at least 91 species were collected (Table 2), and several of these were reared. Several of the known species are uncommon and others represented new species or new state records. *Salmonperla sylvanica* Baumann & Lauck, a rare perlodid species previously known from a few streams in northern California (Baumann & Lauck 1987, Nelson and Stark 1987, Stark and Baumann 2006) was reared from a stream in Jackson Co., Oregon, (Split Rock Creek, Wagner Gap Road, 12 mi S Talent, 42.09480°N, 122.77397°W) and specimens of an apparent new species of *Kathroperla* were also collected at the same site. Other

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