

NOTE

Apobaetis futilis (McDunnough), a New Combination in Nearctic
Baetidae (Ephemeroptera)

The species *Pseudocloeon futile* McDunnough (Ephemeroptera: Baetidae) was transferred to the genus *Plauditus* Lugo-Ortiz and McCafferty along with some other Nearctic species formerly assigned to the genus *Pseudocloeon* Klapálek (Lugo-Ortiz and McCafferty 1998). *Plauditus futilis* has been reported from southern Alberta (McDunnough 1931), central Texas (Baumgardner et al. 1997), and southeastern Oklahoma (Baumgardner and Kennedy 1999). The larva remains unknown.

Based on our examination of the holotype and additional material, we recognize that *Plauditus futilis* instead belongs to the relatively infrequently collected genus *Apobaetis* Day, based on characters that include: anteriorly divergent turbinate eyes; the metanotum with a broad, dorsally projecting, metascutellar hump and a deeply emarginate posterior margin; a prominent, blunt projection between the genital forceps; and divergent genital forceps, each of which has an elongate basal segment and a second segment with relatively uniform thickness (Edmunds et al. 1976, Waltz and McCafferty 1986, Meyer and McCafferty 2003). Therefore, we transfer *Plauditus futilis* to *Apobaetis*, as *Apobaetis futilis* (McDunnough), **new combination**. Two other *Apobaetis* species are known from North America: *A. etowah* (Traver) and *A. lakota* McCafferty (McCafferty 2000).

Material examined.—HOLOTYPE, male adult, Alberta, Milk River, August 18, JH Pepper [Canadian National Collection of Insects, Ottawa, Ontario, Canada]; 11 male adults, 5 female adults, Oklahoma, Pushmataha Co., Kiamichi R at unnamed road

in Tuskahoma, 6-VIII-1993, DE Baumgardner [Purdue University Entomological Research Collection, West Lafayette, Indiana, USA].

Acknowledgments.—David Baumgardner (College Station, Texas) donated some material. This study was funded in part by CanaColl Grant 178 to LMJ.

LITERATURE CITED

- Baumgardner, D. E. and J. H. Kennedy. 1999. Mayflies (Insecta: Ephemeroptera) of the Kiamichi River Watershed, Oklahoma. *Journal of the Kansas Entomological Society* 72: 297–305.
- Baumgardner, D. E., J. H. Kennedy, and B. C. Henry, Jr. 1997. New and additional records of Texas mayflies (Ephemeroptera). *Transactions of the American Entomological Society* 123: 55–69.
- Edmunds, G. F., Jr., S. L. Jensen, and L. Berner. 1976. *The Mayflies of North and Central America*. University of Minnesota Press, Minneapolis, 330 pp.
- Lugo-Ortiz, C. R. and W. P. McCafferty. 1998. A new North American genus of Baetidae (Ephemeroptera) and key to *Baetis* complex genera. *Entomological News* 109: 345–353.
- McCafferty, W. P. 2000. A new Nearctic *Apobaetis* (Ephemeroptera: Baetidae). *Entomological News* 111: 265–269.
- McDunnough, J. 1931. New species of North American Ephemeroptera. *The Canadian Entomologist* 63: 82–93.
- Meyer, M. D. and W. P. McCafferty. 2003. New synonym of *Apobaetis etowah* (Traver) (Ephemeroptera: Baetidae). *The Pan-Pacific Entomologist* 79: 249.
- Waltz, R. D. and W. P. McCafferty. 1986. *Apobaetis etowah* (Traver), a new combination in Nearctic Baetidae (Ephemeroptera). *Proceedings of the Entomological Society of Washington* 88: 191.

Luke M. Jacobus and W. P. McCafferty,
Department of Entomology, Purdue University, West Lafayette, IN 47907, U.S.A.
(email: konchu@purdue.edu)



Jacobus, Luke M and Mccafferty, W P. 2005. "Apobaetis futilis (McDunnough), a new combination in nearctic baetidae (Ephemeroptera)." *Proceedings of the Entomological Society of Washington* 107, 979–979.

View This Item Online: <https://www.biodiversitylibrary.org/item/100258>

Permalink: <https://www.biodiversitylibrary.org/partpdf/40858>

Holding Institution

Smithsonian Libraries and Archives

Sponsored by

Smithsonian

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Entomological Society of Washington

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.