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EATONIA

No. 4

University of Utah, Salt Lake City

OCT 12 1959

On July 24, 1957, James George Needham, pioneer student of the Ephemeroptera died in Ithaca, New York. He published no less than 28 papers dealing, at least in part, with the Ephemeroptera. His principal early contributions dealt largely with the immature stages. Dr. Needham was an inspiring teacher, a fact which is reflected by the imposing number of students that he stimulated to work on the Ephemeroptera. The monumental 1935 work The Biology of Mayflies by Needham, Traver, Hsu, Smith, and Knox (Mayo) is still the standard reference work on North American mayflies. We take great pleasure in dedicating this issue of *Eatonia* to the memory of Dr. Needham.

A Little-Known Work on Ephemeroptera

In 1905, G.G. Jacobsen and V.L. Bianchi published a book in Russia entitled Orthoptera and Pseudoneuroptera of the Russian Empire (Title and text in Russian). The Ephemeroptera are treated on pages 847 - 890 and in figures 84 - 108.

The classification used is as follows: Family Ephemeriidae with subfamilies Palingeriinae and Ephemeriinae; Family Leptophlebiidae with subfamilies Potamanthinae, Leptophlebiinae, Caenidinae, and Baetidinae; Family Siphuridae with subfamilies Siphurinae and Ecdyurinae. Under the current rules of nomenclature these authors have proposed the first family-type name category for the Palingeriidae and Potamanthidae. Of the other names used Ephemeriidae dates from Linnaeus (1758), Baetidae from Leach (1815), Leptophlebiidae, Caenidae and Siphonuridae from Banks (1900), and Heptageniidae from Needham (1901). The current rules regards all family-group names as nomenclaturally equivalent, hence when a name is proposed at any family-group level

(tribe to superfamily), it applies to all other family-group names based on the type genus.

George F. Edmunds, Jr.

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E A T O N I A

A Newsletter for Ephemeropterists

Prepared and Mimeographed by

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By George F. Edmunds, Jr. and W.L. Peters.

News and Notes

Dr. Thelma Howell has discontinued her teaching duties at Wesleyan College to become full time director of Highlands Biological Station in Highlands, North Carolina.

Dr. Ianda would appreciate the receipt of specimens, especially nymphs, of non-European mayfly genera for morphological study. Any well-preserved material is adequate but he prefers material collected in Carnoy's fluid.

Dr. H. T. Spieth has assumed the position of Provost at the University of California, Riverside.

William L. Peters is presently engaged in a revision of the higher classification in the family Leptophlebiidae. He would like to arrange trades for material in this family.

Dr. Lewis Berner has recently been appointed as Interim Head, Biological Sciences, University of Florida.

The editor wishes to receive notes of interest, comments, news items, local lists, research requests and other items to be published in Eatonia.

Thomas B. Thew is currently enrolled in Medical School at the University of Illinois, but is continuing his research on mayflies. At the present time he is finishing his revision of Caenidae and later plans to work on Neotropical forms.

Mr. Thomas Dolan, IV is spending his time on stream survey work as one of the founders of the firm of Biological Consultants.

The Recent Literature of this issue was compiled by G.F. Edmunds, Jr. and W.L. Peters. We would like to have prompt word of any significant errors or omissions. We are aware of a few omissions where we have not seen the journal and the authors have neglected to send a reprint.

This copy of Eatonia # 4 was retyped from the original.
February, 1970
Florida A & M University