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George F. Edmunds Jr.

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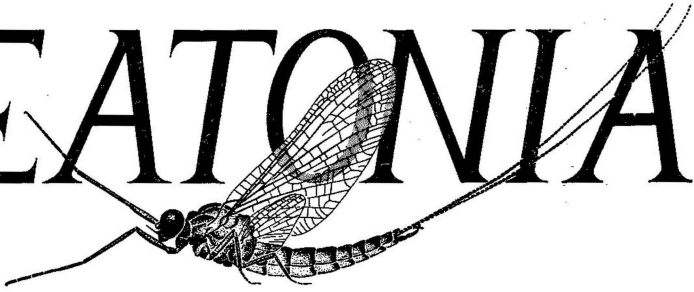
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# EATONIA



No. 8

University of Utah, Salt Lake City

February 15, 1967

We dedicate this issue of EATONIA to two Ephemeropterists who have passed from our ranks, Ann H. Morgan, a true pioneer in the taxonomy and biology of mayflies, and Willis C. Day, an astute amateur of western North American Ephemeroptera.

The new heading on this issue is the creation of S. L. Jensen. The assistant editor, W. L. Peters, has now joined the staff of Florida A and M University, and he and that university join in the effort to produce EATONIA.

ANN HAVEN MORGAN  
1882 - 1966

Doctor Ann Haven Morgan, distinguished conservationist and authority on many branches of aquatic ecology, was born May 6, 1882, in Waterford, Connecticut, daughter of Stanley Griswold and Julia Alice (Douglas) Morgan. She died on June 5, 1966 in South Hadley, Massachusetts, at the age of 84 and is buried in Cedar Grove Cemetery, New London, Connecticut.

Although much of her work was in general zoology and biology, her earlier studies, including her doctor's thesis, were in entomology with special interest in the mayflies whereon she published four papers, in addition to a joint report with Margaret C. Grierson. These papers are cited at the conclusion of this account.

Her first two college years were spent at Wellesley College (Massachu-

setts), the remainder at Cornell University, from 1904 to 1906, when she received the B. S. degree. She was appointed to the staff of Mount Holyoke College, South Hadley, Massachusetts, as an assistant in zoology, in 1906-1907, and instructor 1907-1909. She then secured leave to return to Cornell for her advanced work, being a graduate assistant in general biology from 1909 to 1912, when she received the Ph.D. degree. Her doctor's thesis was "A contribution to the biology of may-flies," cited in the list of papers. Following the completion of this work, she returned to Mount Holyoke where she spent the remainder of her teaching career, retiring in 1947 after 41 years of service. She was an instructor from 1912 to 1914, associate professor from 1914 to 1918, and professor from 1918 to 1947, being chairman of the department from 1916 to 1947. At Mount Holyoke she became one of their outstanding teachers and attracted many students to the field of zoology. During the summers she spent much time at various laboratories, such as the Marine Biological Laboratory at Woods Hole, Massachusetts, and in British Guiana in 1926.

Her three principal textbooks are listed in the bibliography. The two Putnam Field Books are especially popular and have made her name well known to a host of general students and nature lovers.

I first became acquainted with Ann Morgan in 1909 when I entered Cornell in order to study entomology under James G. Needham who had been appointed to the Cornell faculty in 1907, retiring in 1936

as departmental head. In 1908 he instituted the work in limnology, and in 1909 presented the new course in General Biology, in which I was a freshman student. Dr. Needham presented the lectures, while Miss Morgan and John Thomas Lloyd (later a co-author with Needham on an important work on limnology) were the laboratory assistants. The course was most inspiring and attracted many students, being required by all students in the large College of Agriculture wherein it was taught. During this period Miss Morgan was deeply involved in her may fly studies and was associated with another young lady of somewhat similar appearance, Miss Lucy Wright Smith (later Mrs. Wilbert A. Clemens), who worked on the Plecoptera or stone flies. The students early nicknamed these two enthusiastic workers "Mayfly Morgan and Stonefly Smith," from their respective fields of study. Each was a striking individualist and tireless field worker, and their devotion to their work attracted many other students to the field of entomology.

In concluding this short account of the career and accomplishments of Doctor Morgan, I would like to recount a story that was told to me last summer while visiting Grand Manan Island in New Brunswick. There I met an officer of the Massachusetts Audubon Society and he gave me the following account of what transpired at the bookstore of the Society in Lincoln, Massachusetts the year before. The young lady at the desk was approached by an elderly woman who inquired as to what books were available on the subject of aquatic insects. The young clerk brought out a copy of Morgan's "Field Book of Ponds and Streams" and handed it to the visitor for examination, explaining its special qualities and the like. After thumbing through this the visitor remarked that it appeared to be a fairly decent account and asked the price of the volume. Upon being told that this was five dollars she said, "What! Five dollars for that little book! Why it isn't worth anything like that," and so on. The clerk waxed indignant and went into great detail telling the visitor of the unique qualities and value of this volume and emphasizing the fact that actually it was worth a great deal more than the price asked.

Thereupon, the little lady laughed and patted the girl on the shoulder, saying "I am Ann Morgan. Thanks for the nice recommendation of my little book."

Bibliography of Morgan books and papers relating to may flies

- Field Book of Ponds and Streams (G. P. Putnam, New York), 448 pp., 23 pls., 314 figs.; 1930.
- Field Book of Animals in Winter (G. P. Putnam, New York), 528 pp., 26 pls., 257 figs.; 1939.
- Kinships of Animals and Man (McGraw-Hill, New York), 839 pp., numerous figs.; 1955.
- May fly papers
- May-flies of Fall Creek. Ann. Ent. Soc. America, 4: 93-119, 7 pls. 1911
- Homologies in the wing-veins of may-flies. Ibid., 5: 89-106, 5 pls.; 1912
- A contribution to the biology of may-flies. Ibid., 6: 371-413, 3 figs., 13 pls.; 1913 (Ph.D. Thesis).
- The mating flight and the vestigial structures of the stump-legged mayfly, Campsurus segnis Needham. Ibid., 22: 61-68, 1 pl. (with 7 figs.); 1929
- (With Margaret C. Grierson) The functions of the gills in burrowing mayflies (Hexagenia recurvata). Physiological Zoology, 5: 230-245, 1 pl. (with 7 figs.); 1932.

Charles P. Alexander  
Amherst, Mass.

\*\*\*\*\*

WILLIS C. DAY  
1894 - 1965

Willis Cyrus Day was born in Los Angeles, California, a son of Margaret Sharpe Day and Albert Cyrus Day on November 18, 1894. He lived most of his adult life in the San Francisco bay area. He died on October 9, 1965. He is survived by his wife, Helen Leete Day, and two daughters, Helen Day Bromfield and Margaret Day McKibbin. Helen

E A T O N I A

A Newsletter for Ephemeropterists

Prepared and Multilithed by

Department of Zoology and  
Entomology, University of Utah

and

School of Agriculture and Home  
Economics, Florida A & M University

George F. Edmunds, Jr. - - - Editor  
William L. Peters - - - Asst. Editor

- - - - -

was his field companion and a skilled and industrious collector. She was honored by Bill in his naming of Paraleptophlebia helena Day.

Bill, as he was known to his friends, was a remarkable man who will be long remembered. He was a self taught amateur entomologist in the finest sense of the word, being a prominent San Francisco advertising executive by profession.

Bill was led into the study of mayflies by an interest in tying artificial fly patterns for trout fishing. His studies resulted in six papers in Pan-Pacific Entomologist and the Ephemeroptera chapter in the Aquatic Insects of California (R. L. Usinger, Ed.). He established three new genera, described 16 new species, significantly clarified the taxonomy of at least 19 more species, and placed five names as junior synonyms. His publications total over 100 pages with approximately 125 original figures. All of these papers are cited in Eatonia.

Bill was keenly interested in entomology and served in various offices of the Pacific Coast Entomological Society, being the president in 1955. He was a regular visitor to the Entomology Department of the California Academy of Sciences and was made a fellow of the Academy in 1960. His superb collection of mayflies, his entomological library and his microscopes and other scientific equipment were willed to the California Academy of Sciences. He also gave a valuable library on angling to the academy.

For those who knew him well, he will be remembered for his intense devotion to his adopted field, his remarkable ability to innovate special collecting, rearing and curating techniques and especially for his generosity, his keen mind and warm, gentle humor.

I first started corresponding with Bill in 1948 and our letters now occupy a folder 2 inches thick. From among my fond memories, I like to recall "the Ephoron case," Bill and I were collecting together near Salt Lake City in 1950 in an attempt to get Ephoron album, which he wished to see. We were successful in getting a good series of nymphs but a long evening of collecting yielded only three adults. About 2 weeks later the imagos appeared in dense swarms. In jest, I sent Bill a pint jar full of them with a carefully prepared commercial-type label on the outside of the jar SELECT CHOICE EPHORON ALBUM, with the typical claims of a commercial label. His response was to top my joke by sending me without other comment a testimonial as to the excellence and superiority of my "product" and with genuine legal releases allowing me to use his testimonial in advertising my preserved mayflies.

Willis C. Day played a significant role in starting EATONIA by partially financing the first few issues. Additional information about his life, and a fine portrait of him, were published in the Pan-Pacific Entomologist of July, 1966. I have reprints of this account available.

George F. Edmunds, Jr.

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News and Notes

Dr. Jay R. Traver visited the Laboratory of Aquatic Zoology, to confer with George F. Edmunds, Jr. on their joint research. Drs. Traver and Edmunds have a National Science Foundation research grant for revision of certain Neotropical mayfly genera. While in Utah, she visited several scenic National Parks and Monuments in Utah and Arizona.

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During August, 1966, Dr. J. Illies, Schlitz, Germany, visited the University of Utah, Salt Lake City, to confer with

specialists on Plecoptera and Ephemeroptera. Dr. Illies then proceeded on a collecting expedition to Hawaii, Fiji, New Caledonia, New Guinea, Australia and New Zealand. He has successfully completed his journey and is now in Schlitz.

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Dr. William L. Peters recently moved to Florida A & M University, Tallahassee, Florida, where he has established a Laboratory of Aquatic Entomology. He plans to continue his research on the higher classification of the Leptophlebiidae. Dr. Peters invites all Ephemeropterists to visit the new laboratory.

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A section was devoted to aquatic insects during the national meetings of the Entomological Society of America held in Portland, Oregon, November 28 to December 1, 1966. The extent of cooperation among all persons interested in aquatic insects was discussed and it was concluded that in North America and elsewhere, various interests (taxonomy, limnology, water pollution, etc.) do not fully cooperate. In future meetings of this section, various ways to produce such cooperation will be further discussed and initiated. A symposium on aquatic insects included a paper by G. F. Edmunds entitled Studies on the aquatic stages of the Ephemeroptera. J. W. Leonard summarized this symposium including additional data on Ephemeroptera. Submitted papers on Ephemeroptera at least in part included: The upper Mississippi River as a changing habitat for aquatic insects, by C. R. Fremling; Evaluation of aquatic insect emergence traps, by R. A. Kimerle and N. H. Anderson; Catastrophic drift of insects in a woodland stream, by N. H. Anderson and D. M. Lehmkuhl; and the faunal affinities of the mayflies of Idaho, by S. L. Jensen and G. F. Edmunds. W. L. Peters and G. F. Edmunds gave a paper in another section entitled Phylogeny and relationships of the Eastern Hemisphere genera of Leptophlebiidae (Ephemeroptera).

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A. E. Eaton's A Revisional Monograph of Recent Ephemeridae or Mayflies (1883-88) has been reprinted (1965) by Johnson Reprint Corporation, 111 Fifth Ave., New York, N. Y. 10003 and Berkeley Square House, London W1, England. Price U. S. \$45.00.

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Dr. Clyde Eriksen, University of Toronto, has translated the paper by Ambühl (1959) from the original German to English. (See Recent Ephemeroptera Literature, below).

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A thesis entitled "A revision of the generic classification of the Eastern Hemisphere Leptophlebiidae" was submitted to the faculty of the University of Utah by W. L. Peters to complete his Ph.D. requirements. In August, S. L. Jensen completed his thesis "The Mayflies of Idaho" and received the M.S. degree at the University of Utah.

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#### Recent Ephemeroptera Literature

Compiled by William L. Peters  
and  
George F. Edmunds, Jr.

- Aggus, L. R. & L. O. Warren  
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- Allen, R. K.  
[2]-1965. A review of the subfamilies of Ephemerellidae (Ephemeroptera). J. Kans. Ent. Soc., 38:262-266, 4 figs.
- [3]-1965. The adult stages of Ephemerella (Orunella) pelosa Mayo. Pan-Pacif. Ent., 41:280-282, 4 figs.
- [4]-1966. New species of Heptagenia from Western North America (Ephemeroptera: Heptageniidae). Canad. Ent., 98:80-82, 6 figs.
- [5]-1966. Heplohyphes, a new genus of Leptohipinae (Ephemeroptera: Tricorythidae). J. Kans. Ent. Soc., 39:565-568, 6 figs.
- Ambühl, H.  
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- Arvy, L. & B. Delage  
[7]-1966. Infestation massive des Ephemerella vulgata du Manaurie (près Les Eyzies), par Spirincella adippophila (Protozoa., n.g., n. sp. Ann. Parasitologie, 41:213-216, 8 figs.

- Brinck, P. & I. Müller-Liebenau  
[8] -1965. On the status of *Ephemera fuscata* Linnaeus, 1761 (Insecta, Ephemeroptera). Proposed designation of a neotype. Z.N.(S) 1620. Bull. Zool. Nomencl., 22:119-122, 4 plates.
- Botocăneanu, L. & I. Tabacaru  
[9] -1965. Epheméroptères, Plecoptères et Trichoptères des Monts de Fagarasch (Alpes de Transylvanie). Bull. Inst. Sci. Nat. Belg., 39(38):1-58, 10 figs.
- Brabec, L.  
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- Crosskey, R. W.  
[11] -1965. The identification of African Simuliidae (Diptera) living in phoresis with nymphal Ephemeroptera, with special reference to *Simulium Berneri* Freeman. Proc. R. Ent. Soc. Lond. (A), 40:118-123, 1 plate.
- Demoulin, G.  
[12] -1965. Mission zoologique de l'I.R.S.A.C. en Afrique orientale. (P. Basilevsky et M. Leleup, 1957) LXXXVIII. —Ephemeroptera. Ann. Mus. Roy. Afr. Centr., in 8°, Zool., 138:91-114, 14 figs., 1 table.  
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[14] -1965. Redescription of the holotype of *Ephemera orientalis* Melachian, 1875 (Insecta, Ephemeroptera). Zool. Med., 40:215-217, 1 fig.  
[15] -1965. Contribution à la connaissance des Epheméroptères de l'ambre oligocène de la Baltique. Ent. Med., 34:143-153, 5 figs.  
[16] -1965. Contribution à l'étude des Palingeniidae (Insecta, Ephemeroptera). Nova Guinea, Zoology, 33:305-344, 8 figs., 1 table.
- Edmunds, G. F.  
[17] -1965. The classification of Ephemeroptera in relation to the evolutionary grade of nymphal and adult stages. Proc. XIth Intern. Cong. Entom., p. 112.  
[17a] -1966. (Obituary) Willis C. Day, 1894-1965. Pan-Pacific Ent. 42:165-167, portrait.
- Edmunds, G. F., Jr. & R. K. Allen  
[18] -1966. The significance of nymphal stages in the study of Ephemeroptera. Ann. Ent. Soc. Amer., 59:300-303.
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[19] -1964. The distributional relationship between the bottom fauna and plant detritus in streams. J. Anim. Ecol., 33:463-376, 1 fig., 6 tables.
- Frantz, T. C. & A. J. Cordone  
[20] -1966. A preliminary checklist of invertebrates collected from Lake Tahoe, 1961-1964. Occ. Pap., Biol. Soc. Nev., no. 8:1-12, 1 fig.
- Gose, K.  
[21] -1965. The imago of *Choroterpes trifurcata* Ueno (Ephemeroptera). Kontyû, 31:140-141, 12 figs.  
[22] -1965. Two new mayflies from Japan. Kontyû, 31:142-145, 13 figs.
- Grandi, M.  
[23] -1964. Gli organi genitali esterni maschili nelle forme preimmaginali degli Efemerotteri con particolare riguardo al Betico. Atti Accad. Naz. Lincei, Rend. Sc. Fis. Mat. e Nat., Ser. 8., 36:211-216, 2 figs.  
[24] -1964. Contributi allo studio degli Efemerotteri italiani XXV. Gli organi genitali esterni maschili nelle forme preimmaginali degli Efemerotteri. Boll. Inst. Ent. Univ. Bologna, 27:77-117, 17 figs.  
[25] -1964. Contributi allo studio degli Efemerotteri italiani XXVI. Reperti sulle ninfe del genere *Centroptilum* Etn. Boll. Inst. Ent. Univ. Bologna, 27:119-125, 4 figs.
- Grimeisd, G.  
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- Ikoňomov, P.  
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[31] -1963. Ephemeroptera Jugoslaviens, *Habrophlebia* sp. *Nympha konjarenensis*. God. Zborn., (Biol.), 14:175-181, 15 figs.
- Jensen, S. L. & G. F. Edmunds, Jr.  
[32] -1966. A new species of *Ephemera*ella: from Western North America (Ephemeroptera: Ephemerellidae). J. Kans. Ent. Soc., 39:576-579, 6 figs.
- Kamler, E.  
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[34] -1965. Thermal conditions in mountain waters and their influence on the distribution of Plecoptera and Ephemeroptera larvae. Ekologia Polska - Serbia A, 13(20):377-414, 11 figs., 5 tables.
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[36] -1964. Materialy k poznaniyu podenok reki Oki. [Information on the Ephemeroptera of the Oka River.] Tr. Zool. Inst. Akad. Nauk SSSR, 32:164-176.
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- Leonard, J. W.  
[37] -1965. Environmental requirements of Ephemeroptera, pp. 110-117, 1 fig., 5 tables, in Robert A. Taft Sanitary Engineering Center. Biological Problems in Water Pollution. Third Seminar, 1962. Pub. Health Ser. Publ. 999-WP-25. ix + 424 pp.

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- Müller-liebenau, I.  
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- Oliff, W. D., P. H. Kemp & J. L. King  
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- Peters, W. L. & L. O. Warren  
 [48]-1966. Seasonal distribution of adult Ephemeroptera in Northwestern Arkansas. J. Kans. Ent. Soc., 39: 396-401, 1 table.
- Pyataeva, A. D. & T. I. Granitov  
 [49]-1962. A propos o prirode efemerov. [Material on the nature of Ephemerae.] Nauchn Tr. Tashkentskogo Univ., 195:141-153.

- Saaristo, M.  
 [50]-1966. A revision of the Finnish species of the genus Caenis Steph. (Ephemeroptera). Ann. Ent. Fenn., 32: 68-87.
- Schneider, R. F. & L. Berner  
 [51]-1963. A new southeastern species of Baetisca (Ephemeroptera: Baetiscidae). Florida Ent., 46: 183-187, 6 figs.
- Trost, L. M. W. & L. Berner  
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- Uéno, M.  
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- Ujhelyi, S.  
 [54]-1966. The mayflies of Hungary, with the description of a new species, Baetis pentaplebeodes sp. n. (Ephemeroptera). Acta Zool. Hung., 12:203-210, 3 figs.
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- Wisely, B.  
 [56]-1965. Studies on Ephemeroptera. III. Coloburiscus humeralis (Walker): Morphology and anatomy of the winged stages. New Zeal. J. Sci., 8:398-415.

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#### EATONIA INDEX

compiled by  
 Janice G. Peters

Following is the first of a new series to appear in Eatonia. Eatonia Index tabulates information concerning all papers listed in the section, Recent Ephemeroptera Literature, for each edition of Eatonia and the numbers in brackets refer to paper numbers listed in that section. The style is similar to that of Zoological Record. Janice G. Peters is the wife of the Assistant Editor of Eatonia. The editors welcome this addition to Eatonia and we welcome comment on this new series. When we have not seen the paper that is cited, we can only repeat information published elsewhere. We would appreciate any additions or corrections in order to make Eatonia Index as complete and accurate a record as possible.

TAXONOMY

BAETIDAE

Genus Acentrella Bengtsson SEE genus Baetis  
subgn. Acentrella

Acentrella sp. nymph [of Demoulin (1956), Explor.  
Hydrol. lac Tanganika, 3(7):7] SEE  
Centroptilum varium

Application to Intern. Com. Zool. Nomencl.: Brinck  
& Müller-Liebenau (1965) [8] p. 119. An  
application to fix the status of Baetis fuscatus  
(Linnaeus) by designating a neotype and present-  
ing a sufficiently detailed description of the  
species.

Genus Baetis subgn. Acentrella Bengtsson (status  
changed from genus to subgenus) Demoulin  
(1965) [12] p. 94.

Baetis noshaguensis sp. n. (female imago, nymph;  
Uzbekistan, USSR) Ueno (1966) [53] p. 316.

Baetis pentaplebedos sp. n. (male & female imagos,  
nymph; Hungary) Ujházy (1966) [54] p. 206.

Baetis subalpinus Bengtsson (redescription)  
Müller-Liebenau (1966) [44] p. 21.

Baetis ursinus sp. n. (Siberia) Kazlauskas (1963)  
[25] p. 583, 593.

Centroptilum forlivense sp. n. (nymph; Italy)  
Grandi (1964) [25] p. 122.

Centroptilum varium Crass [= Acentrella sp. nymph  
of Demoulin (1956), Explor. Hydrol. lac  
Tanganika, 3(7):7] Demoulin (1965) [12] p. 94.

Pseudocentroptilum ? shadini (nymph; Russia)  
Kazlauskas (1964) [26] p. 164-176.

Pseudocloeon (Baetiella) fenestratum sp. n.  
(Siberia) Kazlauskas (1963) [27] p. 588, 593

Pseudocloeon (Baetiella) sibiricum sp. n. (Siberia)  
Kazlauskas (1963) [25] p. 589, 593.

Pseudocloeon (Baetiella) tuberculatum sp. n.  
(Siberia) Kazlauskas (1963) [25] p. 586, 593.

HEPTAGENIIDAE

Heptagenia jewetti sp. n. (male & female imagos;  
California, USA) Allen (1966) [4] p. 80.

Heptagenia kyotoensis sp. n. (Japan) Gose (1963)  
[22] p. 143.

Heptagenia macedonica (female imago, nymph)  
Ikononov (1963) [30] p. 156.

Heptagenia petersi sp. n. (male & female imagos;  
Wyoming, USA) Allen (1966) [4] p. 82.

Heptagenia trinaculata sp. n. (Macedonia,  
Yugoslavia) Ikononov (1963) [30] p. 162.

LEPTOPHEBIIDAE

Choroterpes trifurcata Uéno (imago) Gose (1963)  
[21] p. 140.

Choroterpes trifurcatus (imago) Kazlauskas (1963)  
[25] p. 584.

Habrophlebia sp. nymph konjarensis (Yugoslavia)  
Ikononov (1963) [31] p. 175.

Hagenulodes braueri Ulmer (nymph) Peters & Edmunds  
(1966) [47] p. 26.

Thraulodes brunneus sp. n. (male imago; New Mexico,  
USA) Koss [38a] p. 91.

EPHEMERELLIDAE

Subfamily Ephemerellinae

Genus Austremerella Riek SEE genus Ephemerellina  
subgn. Austremerella

Genus Ephemerella subgn. Teloganopsis Ulmer (status  
changed from genus to subgenus) Allen (1965)  
[2] p. 265.

Ephemerella (Ephemerella) alleni sp. n. (nymph; Idaho,  
USA) Jensen & Edmunds (1966) [32] p. 577.

Ephemerella (Drunella) pelosa Mayo (male & female  
imagos) Allen (1965) [3] p. 280.

Ephemerella yoshinensis sp. n. (Japan) Gose  
(1963) [22] p. 142.

Genus Ephemerellina Lestage SEE Subfamily  
Teloganodinae

Genus Teloganella Ulmer SEE Subfamily  
Teloganodinae

Genus Teloganodes Eaton SEE Subfamily  
Teloganodinae

Genus Teloganopsis Ulmer SEE genus Ephemerella  
subgn. Teloganopsis

Iorleya padunica sp. n. (Siberia) Kazlauskas  
(1963) [25] p. 584, 593.

Subfamily Teloganodinae subfamily n. Allen (1965)  
[2] p. 263.

Genus Ephemerellina Lestage (transferred from  
subfamily Ephemerellinae) Allen (1965) [2]  
p. 263.

Genus Ephemerellina subgn. Austremerella Riek  
(status changed from genus to subgenus) Allen  
(1965) [2] p. 263.

Genus Teloganella Ulmer (transferred from subfamily  
Ephemerellinae) Allen (1965) [2] p. 263.

Genus Teloganodes Eaton (transferred from subfamily  
Ephemerellinae) Allen (1965) [2] p. 263.



## TRICORYTHIDAE

Genus Haplohyphes gen. n. Allen (1966) [5] p. 566.

Haplohyphes huallaga sp. n. (male & female imagos; Peru) Allen (1966) [5] p. 567.

Haplohyphes mithras (Traver) comb. n. (transferred from Leptohyphes) Allen (1966) [5] p. 568.

Leptohyphes mithras Traver SEE Haplohyphes mithras

## EPHEMERIDAE

Ephemer orientalis McLachlan (redescription from holotype) Demoulin (1965) [14] p. 215.

## PALINGENIIDAE

Anagenesia albescens sp. n. (male imago; Borneo) Demoulin (1965) [16] p. 327.

Anagenesia nana sp. n. (male imago; Borneo) Demoulin (1965) [16] p. 329.

Anagenesia nanoides sp. n. (female imago; Sumatra) Demoulin (1965) [16] p. 342.

Anagenesia spodiocephala sp. n. (male imago; Borneo) Demoulin (1965) [16] p. 329.

Anagenesia yangi Hsu SEE Chankagenesia yangi

Chankagenesia ? yangi (Hsu) (transferred from Anagenesia) Demoulin (1965) [16] p. 316.

Palingenia apatris sp. n. (male imago; Liberia) Demoulin (1965) [16] p. 312.

Plethogenesia delicata sp. n. (male & female imagos; Neth. New Guinea) Demoulin (1965) [16] p. 335.

Plethogenesia lieftincki sp. n. (male imago; Neth. New Guinea) Demoulin (1965) [16] p. 343.

Plethogenesia pallida sp. n. (male & female imagos; Neth. New Guinea) Demoulin (1965) [16] p. 337.

## NEOEPHEMERIDAE

Neopemera tsharnovae sp. n. (Siberia) Kazlauskas (1963) [35] p. 582, 593.

## CAENIDAE

Caenis horaria (Linne) (= Caenis horaria fennica Aro syn. n.; redescription of imago & nymph) Saaristo (1966) [50] p. 69.

Caenis moesta Bengtsson (redescription of nymph) Saaristo (1966) [50] p. 80.

Caenis nivea Bengtsson SEE Caenis rivulorum

Caenis nocturna Bengtsson (= Caenis undosa Tiensuu syn. n.; redescription of imago & nymph) Saaristo (1966) [50] p. 84.

Caenis rivulorum Eaton (= Caenis nivea Bengtsson syn. n.; redescription of imago & nymph) Saaristo (1966) [50] p. 75.

Caenis robusta Eaton (redescription of imago & nymph) Saaristo (1966) [50] p. 78.

Caenis undosa Tiensuu SEE Caenis nocturna

## BAETISCIDAE

Baetisca becki sp. n. (nymph; Florida, USA) Schnelder & Berner (1965) [51] p. 183.

## FOSSIL EPHEMEROPTERA

## AMETROPODIDAE

Metretopus ? henningseni sp. n. Demoulin (1965) [15] p. 143.

## HEPTAGENIIDAE

Genus Succinogenia gen. n. Demoulin (1965) [15] p. 151.

Succinogenia larssoni sp. n. Demoulin (1965) [15] p. 151.

## LEPTOPHLEBIIDAE

Genus Oligophlebia gen. n. Demoulin (1965) [15] p. 146.

Oligophlebia calliarcys sp. n. Demoulin (1965) [15] p. 146.

Oligophlebia ? longiceps sp. n. Demoulin (1965) [15] p. 147.

## BIOLOGY AND LIFE HISTORIES

Gynandromorphy in Ameletus inopinatus Etn. Grimejland (1963) [26].

Life history of Callibaetis floridanus Banks. Trost & Berner (1963) [52].

Techniques of studying developmental stages of nymphs, Levenidova & Rubanenkova (1965) [38].

Descriptions of habitats of nymphs of mayflies in Honduras. Packer (1966) [46a].

## EVOLUTION AND CLASSIFICATION

Classification in relation to evolutionary grade of nymph and adult stages. Edmunds (1965) [17].

Significance of nymphal stages in classification, Edmunds & Allen (1966) [18].

#### FAUNAL AND DISTRIBUTION STUDIES

- Invertebrates in Lake Tahoe, California and Nevada, USA. Frantz & Cordone (1966) [20].
- Adult Ephemeroptera in Arkansas, USA. Peters & Warren (1966) [48].
- Ephemeroptera (primarily nymphs, genus only) in Honduras. Packer (1966) [46a].
- Bottom fauna in Scottish Highlands, Great Britain. Morgan & Eglishaw (1965) [42].
- Arthroplea in Moravia, Czechoslovakia. Brábec (1965) [10].
- Ephemeroptera of Hungary. Ujhelyi (1966) [54].
- Caenis in Finland, distribution & revision of species. Saaristo (1966) [50].
- Ephemeroptera of two Tatra streams, Poland. Kamler (1962) [33].
- Ephemeroptera, Plecoptera and Trichoptera of Monts de Fagarasch, Romania. Boțoșneanu & Tăbăceru (1963) [9].
- Distribution and ecology of ephemerae in Central Asia, USSR. Pyataeva & Granitov (1962) [49].
- Ephemeroptera of the Oka River, USSR. Kazlauskas (1964) [36].
- Ephemeroptera of Pamir and Hindukush Ranges, USSR. Uéno (1966) [55].
- Geographical distribution of river invertebrates in South Africa. Harrison (1965) [28].
- Aquatic and semi-aquatic insects of New Zealand. Wise (1965) [55].

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- Pre-impoundment study of bottom organisms, Arkansas, USA. Aggus & Warren (1965) [1].
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- Comparative ecological study of three streams in Auckland area, New Zealand. McLean (1966) [42].

#### MORPHOLOGY

- Preimaginal development of male genitalia, particularly in the Baetidae. Grandi (1964) [23].
- Comparative preimaginal development of male genitalia among families. Grandi (1964) [24].
- Morphology and anatomy of Coleburiscus humeralis (Walker). Wisely (1965) [38].

#### PARASITOLOGY

- Simulium larvae parasitic on Elasoneuria sp. Crosskey (1965) [11].
- Trichomyctes in rectum of Ephemeroptera nymphs. Manier (1962) [41].
- Spirinella adipophila n.g., n.sp. parasitic in Ephemerella vulgata. Arvy & Delage (1966) [7].

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