

OBITUARY

On 9 December 1984 Dr. ANKER NIELSEN died after a prolonged illness.

Anker Nielsen was born in 1907 in a village near Ålborg (Himmerland, N.Jutland). He developed a keen interest in nature at an early age, and the freshwater biota of his childhood district remained a central theme in his later scientific work. His particular fondness for insects, and the aquatic ones in particular, was aroused through his reading of the popular writings of the "Altmeister" of N.European limnology, Professor C.Wesenberg Lund, with whom he later made personal acquaintance at Copenhagen University. In 1934 he graduated Mag.scient. and in 1939 he obtained a position as scientific assistant in the University's Laboratory of Freshwater Biology in Hillerød. In 1942 he obtained the Dr.phil. degree (comparable to a German "Habilitation") for that massive tome "Über die Entwicklung und Biologie der Trichopteren, mit besonderer Berücksichtigung der Quelltrichopteren Himmerlands" (Arch.Hydrobiol.Suppl. 17). In 1951 he moved to the University Institutes in Copenhagen, first as a lecturer in zoology, and from 1954 as a curator in the Entomology Department of the Zoological Museum. In 1960 he became Reader in Entomology. He retired in 1977 but continued his research in the Museum until the early eighties, when his health, which had been fading over some years, suddenly deteriorated.

Anker Nielsen was surely an outstanding figure in his generation of trichopterists. In addition to his doctoral work he wrote major memoirs on hydroptilid immature stages (Biol. Skr. 5, 1, 1948) and on the morphology of male and female genitalia (Biol. Skr. 8, 5, 1957 and 23, 1, 1980) as well as several smaller articles on caddisfly structure, bionomics and systematics; he also published a major study of some members of the ceratopogonid midge genus Atrichopogon. It is less well known, perhaps, that he was also an immensely erudite general insect morphologist. Through more than a decade he spent most of his time on the preparation of a handbook of general entomology which was conceived as a successor to Snodgrass' 1935 Principles of Insect Morphology. His realization, in the late seventies, that a work of this kind could no longer be compiled by a single individual and that his efforts on the project had therefore been largely wasted, naturally was the source of considerable frustration. Those who really benefitted from these efforts, of course, were his research students, such as the undersigned; his erudition coupled with his captivating enthusiasm, provided a major stimulus that I still gratefully acknowledge.

A full publication list is being published with the Obituary article in Vidensk.Meddr.dansk naturh.Foren., 146:115-124, 1985.

N.P.Kristensen (Copenhagen)

List of trichopterological papers by Anker Nielsen:

- 1935 En Forekomst af *Apatania muliebris* MacLachlan i Danmark. - Flora Fauna, Silkeborg 1935:101-104.
- 1936 Das Eierlegen, der Laich und die Larven des 1.Stadiums von *Oligopteryx maculatum* Fourcroy (Trichoptera). - Zool.Anz.113:255-266.
- 1937 Die Larven des 1.Stadiums von *Agapetus fuscipes* Curtis. - Arch.Hydrobiol. 31:253-263.
- 1942 Über die Entwicklung und Biologie der Trichopteren mit besonderer Berücksichtigung der Quelltrichopteren Himmerlands. - Arch.Hydrobiol.Suppl. 17:255-631.
- 1943 *Apatidea auricula* Forsslund from a Norwegian mountain lake. - Ent.Meddr. 23:18-30.
- 1943 Postembryonale Entwicklung und Biologie der rheophilen Köcherfliege *Oligopteryx maculatum* Fourcr. - Biol.Meddr. 19,2:87 pp.
- 1944 Trichopterologische Notizen. - Vidensk.Meddr.dansk naturh. Foren. 107:105-120.
- 1948 Trichoptera. - In:Kaj Berg: Biological studies on the river Susaa. - Fol.limn.Scand. 4:123-143.
- 1948 Postembryonic development and biology of the Hydroptilidae. - Biol.Skr. 5, 200 pp.
- 1950 Insekter, Indledning, Guldsmede etc. Netvinger etc. Vandmider. - In: Vort Lands Dyreliv 2:225-234, 239-254, 272-284, 427-429. Red.Braestrup, Thorson & Wsenberg-Lund. Gyldendal.
- 1950 Notes on the genus *Apatidea* MacLachlan. With description of two new and possibly endemic species from the springs of Himmerland. - Ent.Meddr. 25:384-404.
- 1950 On the zoogeography of springs. - Hydrobiologia 2:313-321.
- 1950 The torrential invertebrate fauna. - Oikos 2:176-196.
- 1951 *Hydroptila occulta* Eaton, new to the Danish fauna. With description of the specific characters. - Ent.Meddr. 26:122-129.
- 1951 Spring fauna and speciation. - Proc.Int.Ass.Limn. 11:261-263.
- 1956 Trichoptera. - In:Taxonomist's Glossary of Genitalia in Insects:88-96. Ed.S.L.Tuxen, Copenhagen.
- 1957 On the evolution of the genitalia in male insects. - Ent. Meddr. 28:27-57.
- 1957 A comparative study of the genital segments and their appendages in male Trichoptera. - Biol.Skr. 8,5:159 pp.
- 1959 On the evolution of the various biological types within the order Trichoptera. - Proc. 15th Int.Congr.Zool:1007-1008.
- 1959 Om evolution af de forskellige biologiske typer indenfor orden Trichoptera. - Not.Ent. 39:101-102.
- 1961 Vårfluer (Trichoptera) i Thy. - Flora Fauna, Silkeborg 64:145-156.
- 1961 A new record of the Arctic caddisfly *Apatania* Kol. from Denmark. - Ent.Meddr. 31:192-194.
- 1963 Reliktproblemer. Den geografiske variation af *Apatania muliebris* MacL. (Trichoptera). - Ent.Meddr. 32:19-21.
- 1965 Øvrige vingede insekter (fra Hanstedreservatet). - Ent.Meddr. 30:305-312.
- 1966 Ephemeroptera, Plecoptera, Trichoptera i Ekskursjonsberetning fra Aurland (1965). - Norsk Ent.Tidsskr. 13:376-377.
- 1969 On the subspecies of *Apatania muliebris* McL. (Trichoptera). - Ent.Meddr. 37:313-318.
- 1969 Dyrelivet i rindende vand og kilder. - Danmarks Natur 5:68-119.

- 1970 Trichoptera. - In:Taxonomist's Glossary of Genitalia in Insects. 2nd ed.:104-115. Ed.S.L.Tuxen. Copenhagen.
- 1971 Hvirvelløse dyr på land og i ferskvand (på Faerøerne). - Danmarks Natur 10:544-551.
- 1976 Pollution and caddisfly fauna. - Proc.1st Int.Symp.Trichoptera: 159-161.
- 1976 Revision of some opinions expressed in my 1942 paper. - Ibid.:163-165.
- 1977 The genital segments of female Trichoptera. - Proc.2nd Int. Symp.Trichoptera:159-164.
- 1980 En indsigelse. - Flora Fauna, Silkeborg 1980:22.
- 1980 A comparative study of the genital segments and the genital chamber in female Trichoptera.- Biol.Skr. 23,1: 200 pp.
- 1981 On the evolution of the phallus and other male terminalia in the Hydropsychidae with a proposal for a new generic name. - Proc. 3rd Int.Symp.Trichoptera: 273-278.
-

News about *Hydropsyche pellucidula*

For about one and a half centuries, the identification of this common European species was not in doubt. However, during the last few decades several southern "forms", earlier thought to be *pellucidula* were recognized as good species and therefore described and named. In addition some material, whose taxonomical position is not yet clear, is still left in collections. Probably some of these specimens will turn out to belong to separate taxa yet to be described.

Recently some workers have found strong indications that the Central European "*pellucidula*" are not all the same. *Hydropsyche dinarica* was described by Mara Marinković from Yugoslavia, and I have seen many specimens from Yugoslavia, Austria, Switzerland, Italy, Spain and Portugal, and now Thomas Pitsch has found it in Central Germany, and Philippe Stroot in Belgium. Thomas Pitsch and Diego de Jalón tell me that the larva of *H.dinarica* is easily distinguished from *pellucidula*, in contrast with other larvae in this genus. In addition, Thomas Pitsch found three more "forms" in Central Germany, more or less clearly separable as males, and two of them also as larvae.

Thus I wish to draw the attention of all trichopterists to these new findings so that everybody should take care in identification. There are also indications that these "forms" inhabit different zones along a river and show differences in their tolerance of pollution.

Ma.