## THE WORKS AND NEW NOMINAL MOLLUSCAN TAXA INTRODUCED BY MALCOLM EDMUNDS (1938–2017) WITH AN OBITUARY

It is with great sadness that I take on this role, but with deep admiration for this kind man. I first met Malcolm in 1986 at the Ninth International Malacological Congress in Edinburgh but, as a young student in awe of everyone around me, I was fairly dumbstruck. Malcolm and I corresponded over the intervening 30 years, not just about sea slugs but all sorts of things. He was sympathetic and interested in what I was doing, and happily told me about things going on in his life. I saw him again in October 2016, and he died three months later, on 24 January 2017, of cancer.

Many colleagues have written to me of their feelings and memories, and they are all so positive: happy collaborations for those who were lucky enough to write papers with him, those grateful for linguistic corrections when reviewing in the "good ol' days" of paper, cheerful days with Malcolm on field trips discussing many aspects of nature, Malcolm's kindness in providing advice, assistance, and when making corrections. My lasting impression is of his love for his family. In the latter days, the majority of his emails to Leila (Carmona, his last co-author) and me always had "some beautiful words for his family, especially for Janet."

Malcolm Edmunds was born in Harlow Essex into a Quaker family. Quakerism remained an important strand in his many-faceted life. He was educated at Harlow College and Leighton Park School, Reading. In 1957 he went up to Queen's College Oxford to read Zoology. He was introduced to sea slugs on a University field course at the Scottish MBA station, Millport, Isle of Cumbrae, just as I was! He was planning on doing research, but did not know what to study; being unsure if he would enjoy it, he decided he wanted to work on attractive animals and sea slugs "seemed right." He began his DPhil in 1960 on the defensive glands of aeolids. His fieldwork was mainly centred at the MBA field station in Plymouth, with six months in Jamaica in 1961/62. He published a number of papers on both British and Jamaican opisthobranchs, as they were known then, during the 1960s. That year he met Janet Holmes, a zoology undergraduate, and

they married in the icy January of 1963. On completion of his thesis, he gained a lectureship at the University of Ghana, in Legon. Unfortunately, the shore fauna in Ghana was poor and he relied on a colleague who dived the offshore reefs, and brought back encrusting growths which Malcolm sorted in the laboratory. This large number of sea slugs occupied him on and off for most of his life, and in fact his last papers were published on the Ghanaian aeolid fauna. From Ghana, the family spent three months in Tanzania in 1967, where he collected sea slugs, including some from the pontoon where President Nyerere's boat was moored (with permission!). When the University of Ghana's boat was sunk and not repaired, Malcolm turned his attention to the defences of land arthropods, particularly praying mantids, polymorphic mimetic butterflies, and antmimicking spiders.

After ten happy years in Ghana the family, including two daughters, decided it was time to return to England. He obtained a year's British Council fellowship, which he took at Exeter University where his erstwhile supervisor, Prof David Nichols, was professor. During this time he finished writing a book Defence in Animals which was published the next year. In 1974 he became a Lecturer in Biology at Preston Polytechnic, later University of Central Lancashire, where he produced several papers on nudibranchs. He was particularly interested in the comparisons between the species from both sides of the Atlantic. He and Hanne Just wrote the text to accompany drawings of sea slugs by Professor Henning Lemche, which was published in 1985 as North Atlantic Nudibranchs (Mollusca) seen by Henning Lemche. His fieldwork was mainly on polymorphism, first in hawkmoth caterpillars and then in hoverflies, but included a trip to Malaysia to look at ant-mimicking spiders. On his retirement in 2004, he was awarded an Emeritus Professorship. He continued to chair the Ethics Committee of the university, while still working on hoverflies and writing up his studies on sea slugs. In 2013 he moved to Otley in Yorkshire, so he and Janet could be close their daughters in Leeds. He then published his last few papers on



**Figure 1** Malcolm Edmunds at WWT Martin Mere nature reserve, November 2013, photograph taken by Vinicius Padula.

sea slugs, the final one with Leila Carmona which appeared in print a few days before he died.

In addition to biology, he had many other interests and activities. Malcolm was prominent in the Lancashire Wildlife Trust, becoming chairman of the Conservation Committee and a Trust Vice Chairman. He was co-author of a book entitled Wildlife in Lancashire: exploring the natural history of Lancashire, Manchester and North Merseyside published by the Trust in 2007, a comprehensive and well-illustrated guide to the wildlife of the region for all natural history lovers, both amateurs and experts. He enjoyed walking, travelling, exploring, and photographing wildlife, particularly insects, flowers, and he loved growing alpine plants. During 2016 he published Our Wonderful World, a collection of short articles in which he explored animal behaviour and other features of the natural world and drew ethical lessons from them.

Devoted to his family, which includes two grandsons, he was also active and valued among the Lancashire Quakers. He achieved much in his life, but was unassuming and always treated others with respect, consideration, and kindness. He was admired and greatly liked by those who knew him and will be profoundly missed by his many friends, colleagues, and most of all by his family. He was, and will continue to be, an inspiration to all of us.

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## NEW NOMINAL TAXA, MOLLUSCA

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- *africana, Noumeaella* Edmunds, 1970: 43–45, Figs. 20B, 21A–F. Holotype B.M.(N.H.) Reg. no. 196945W. President's jetty, Dar es Salaam, Tanzania.
- africana, Okenia Edmunds, 2009a: 42–46, Figs 1C, D, 4A–E. Holotype B.M.(N.H.) Reg. no. 20090218. Teshie, Ghana.

- africana, Trapania Edmunds, 2009a: 50, Figs 2E, 6A–C. Holotype B.M.(N.H.) Reg. no. 20070667. Kpone Bay, Ghana.
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- atlantica, Kabeiro Edmunds & Carmona, 2017: 350-351, Figs 6B, 7. Holotype B.M.(N.H.) Reg. no. 20169434. 10m Reef (Tema or Accra), Ghana.
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- boma, Trinchesia Edmunds 1970: 25–26, Figs 7A–F, 8B. Holotype B.M.(N.H.) Reg. no. 196931. W. President's jetty, Dar es Salaam harbour and Oysterbay, Dar es Salaam, Tanzania
- brunnea, Godiva Edmunds, 2015c: 152-155, Figs 16A-B, 17A-I. Holotype Reg. no. NHMUK 20150389. 41m in Tema Bay, Ghana.
- caribbea, Berthelinia Edmunds, 1963: 731–737, Figs 1–5. Holotype B.M.(N.H.) Reg. no, 1962261W. Mangrove beds near Port Royal, Jamaica.
- crocea, Rostanga Edmunds, 2011: 645-647, Figs 9F, 12A-F. Holotype NHMUK Reg. no. 20110407. 10m Reef Kpone Bay, Ghana.
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- ghanensis, Discodoris Edmunds, 2011: 621-624, Figs 1G, 3A-I. Holotype NHMUK Reg. no. 20110389. East Tema rocks, Ghana.
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- ghanensis, Glossodoris Edmunds, 1968b: 88-89, Fig. 4D-F, 5A. Holotype B.M.(N.H.) Reg. no.

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- ghanensis, Jorunna Edmunds, 2011: 638-642, Figs 9B, 10A-I. Holotype NHMUK Reg. no. 20110403. Tema Harbour, Ghana.
- ghanensis, Marionia Edmunds & Carmona, 2017: 344–345, Figs 3, 4A–G. Holotype B.M.(N.H.) Reg. no. 20160426. 30m off Labadi, Ghana.
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- kima, Piseinotecus Edmunds 1970: 36–39, Figs16A, 17A-F. Holotype B.M.(N.H.) Reg. no. 196941W. Ladder Cove, Dar es Salaam, Tanzania.
- kinoi, Janolus Edmunds & Carmona, 2017: 353–354, Figs 6D, 9A-C. Holotype B.M.(N.H.) Reg. no. 20160441. 10m Reef (Tema or Accra), Ghana.
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- *rubrolineata*, *Godiva* Edmunds, 1964: 23–27, Figs 14A, 15A–D, 16A–C. Holotype B.M.(N.H.) Reg. no. 1963117W. Port Royal, Jamaica.
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- *tema*, *Catriona* Edmunds, 1968a: 203–208, Figs 1A–C, Figs 2A–E, 3A. Holotype B.M.(N.H.) Reg. no. 1966466 (sectioned). Teshie, between Accra and Tema, Ghana.
- *tema*, *Cratena* Edmunds, 2015c: 145–149, Figs 10E, 13A–I. Holotype Reg. no. NHMUK 20150378. 27m, Tema Bay, Ghana.
- *tema*, *Discodoris* Edmunds, 1968b Edmunds, 1968: 89–93, Fig. 6A–C, 7, 8. Holotype B.M.(N.H.) Reg. no. 19677. 1 mile east of Tema, Ghana. [accepted as *Geitodoris tema* (Edmunds, 1968)].
- *tema*, *Hypselodoris* Edmunds, 1981a: 189–192, Figs 7A–F, 8. Holotype B.M.(N.H.) Reg. no. 198060. 46m southwest of Tema, Ghana [accepted as *Felimare tema* (Edmunds, 1981)].
- temarensis, Peltodoris Edmunds, 2011: 618–621, Figs 1A,B, 2A–M. Holotype NHMUK Reg. no. 20110390. East Tema rocks, Ghana.
- Teshia Edmunds, 1966b: 69. Type species Teshia digitata Edmunds, 1966 [accepted as Okenia Menke, 1830].