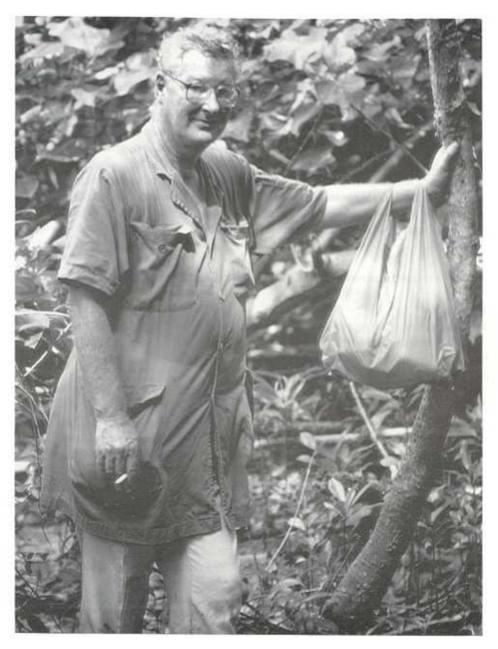
# The Dennis H. Murphy Valedictory Issue



As the first Honours and M. Sc. student of Professor Murphy, I guess it is quite appropriate that I write this valedictory note, Also, of all the academic staff members in the Department of Zoology, National University of Singapore, I have known Paddy (his nickname) longest - since 1960, when he first taught me Entomology in the then University of Malaya in Singapore.

Paddy Murphy (born 12 May 1931) studied biology at the University of Durham, England, graduating in 1952 with a Class II Division I honours degree in Zoology. He joined the Medical Research Council of Gambia, West Africa, as an entomologist, from 1955 to 1960. In 1960 he served as Lecturer at the University of Malaya in Singapore until 1973 when he was promoted to Senior Lecturer. Ten years later, in 1983, he was promoted to Associate Professor, in which post he is now retiring from service after 31 long, faithful and productive years.

While teaching at the University he enrolled for his Ph.D. candidature in the field of his expertise, namely the systematics of Collembola (springtails). But, somehow, because of his unique love and special attraction for the forest, where he would spend days on end and years unending, collecting insects and other arthropods to whet his enormous taxonomic appetite, he never managed to write up and submit his Ph.D. thesis. In any case, Paddy's contemporary and colleague in the Department, Herbert Fernando (now Full Professor at Waterloo University, Canada), has very aptly said: "He is much more than a Ph.D." Paddy's vast and wide-ranging knowledge of not only the insects but other animals as well, is legendary. Students and staff members alike would invariably consult him when they have an identification problem. He would almost always be able to rattle off a name with just one glance at the animal. Such is his knowledge and familiarity with our local fauna. Indeed, he may be dubbed "The Walking Dictionary".

Paddy's research interest may be broadly categorised into two areas:

#### 1) General

- a) Systematics Singapore insects in general and World Collembola and Onchidiacea (Mollusca) in particular.
- b) Mangrove ecology insect-plant relationships, phyto-sociology, herbivory.
- c) Theory of population dynamics.

### 2) Special

- a) Systematics Oriental Odonata, Orthoptera (Acrididae, Tettigoniidae, Gryllidae), Phasmatodea, Dictyoptera, Isoptera, Diptera (Calyptratae, Micropezidae, Sepsidae, Lonchaeidae), Homoptera (Fulgoroidea, Psylloidea, Aleyrodoidea), Hemiptera (Gerroidea), Hymenoptera (Formicidae).
- b) Taxonomy and Biology of Mangrove Insects Special studies of oriental mangrove Lepidoptera (Pyralidae, Noctuidae, Xylorictidae), Coleoptera (Scolytidae, Platypodidae, Oedemeridae and some Chrysomelidae), and some Crustacea (Oniscidae, Sphaeromatidae) and Mollusca (Onchidiacea, Ellobiacea).
- Ecology of Mangrove Fauna Special studies of inland forest phyto-sociology, herbivory, timber decomposition, inter-tidal insects and isopods, and diptera of public health importance.
- d) Museum development Development of the Zoological Reference Collection; development of keys for genus level identification of Southeast Asian insects.

Because Paddy Murphy is an avid and persistent collector, not only of insects but also of other animal fauna, he has secured so many animals of interest that the local museum and museums overseas (especially the British Museum) have benefitted from his work. Also because of his fame as the most outstanding insect taxonomist in the region, Paddy serves as consultant to

# RAFFLES BULLETIN OF ZOOLOGY 1991 39(1)

several companies in the identification of medical, forestry, agricultural and stored products pests.

Professor Murphy has supervised many Honours, M.Sc. and Ph.D. students in his 30 years of academic life. One of his latest Ph.D. products is none other than Dr Peter Ng who is now a lecturer in the Department of Zoology, NUS, and an authority on the systematics of Crustacea (Decapoda) and Co-Editor of this journal.

Murphy's most significant contributions to science had been in the field of springtails (Collembola). But now that his interest lies in mangrove systematics and ecology, the scientific world can expect great and significant contributions in this area. Now that he is retiring and has time to write up the voluminous amount of data he has collected over the years, his greatest contributions will no doubt come rolling off the press in the years ahead. No doubt he will prove everybody wrong when he churns out his publications in a most prolific, dynamic and unexpected way. In my judgment, his finest hour is dawning, and the true scientific giant in this man is just about to burst forth.

#### Dr Chan Kai Lok

Associate Professor Department of Zoology, National University of Singapore

## LIST OF PUBLICATIONS

1953. A new littoral Proisotoma (Collembola, Isotomidae) from the Clyde area. Proc. Roy. ent. Soc. Lond., (B)22: 103-105.

1955. Long term changes in Collembolan populations with special reference to moorland soils. Soil Zoology, Butterworth, pp. 99-124.

1958. Isotoma vaillanti sp. nov., a new species of Collembola from Algeria, Ann. Mag. Nat. Hist., (13)1(8): 524-526.

1959. Notes on Isotomurus, with a redescription of Isotoma antennalis (Bagn.). Ann. Mag. Nat. Hist., (13)1(11): 677-681.

1959. Sensiterga infuscata gen. et sp. nov., a new isotomid from Britain. Proc. Roy. ent. Soc. Lond., (B)28(7-8): 118-120.

1959. (first author, with H. Gisin) The preservation and microscopic preparation of Anopheline eggs in a lactoglycerol medium. Proc. Roy. ent. Soc. Lond., (A)34: 171-174.

1960. Collembola Symphypleona from the Gambia with a note on the biogeography of some characteristic savanna forms. Proc. Zool. Soc. Lond., 134: 557-594.

# The Dennis H. Murphy Valedictory Issue

- 1960. Some records and redescriptions of British Collembola (part 1) Arthropleona, with a description of Micranurida conjuncta sp. nov. Proc. Roy. ent. Soc. Lond., (B)29: 46-55.
- 1960. Some records and redescriptions of British Collembola (part 2) Symphypleona, with a description of Bourletiella craggi sp. nov. Proc. Roy. ent. Soc. Lond., (B)29: 57-64.
- 1960. A note on collection of Heleidae and other biting Diptera in suitable condition for dissection. Mosquitoes News, 20.
- 1961. Biological species confused under the name Culicoides austeni (Carter, Ingram and McFie). Nature.
  192: 186-187.
- 1965. Collembola Poduromorpha from the Gambia (West Africa). J. Zool., 146: 388-411.
- 1965. Tullbergia (Stenophorura) gibsoni n. sp., (Collembola, Onychiuridae) from grassland soils in Singapore, J. Malay, Br. Roy. Asiat. Soc., 38: 22-25.
- 1965 (second author, with D. J. Lewis) The sand-flies of the Gambia (Diptera, Phlebotominae). J. Med. Em., 1: 371-376.
- 1966. Taxonomy and bionomics of eight species of Sphaeridia (Collembola, Smithurididae) in a Singapore flood plain. Rev. Ecol. Biol. Sol., 3(1): 65-96.
- 1971. Revision of the tropical marine littoral genus Pseudamarida Schott (Collembola, Pseudachorutinae).
  Pacific Insects, 13(1): 49-63.
- 1971 (first author, with Y. T. Lee) Three new species of Coniopteryx from Singapore (Planipennia, Coniopterygidae), J. Entomol., (B)40(2): 151-161.
- 1972. (first author, with J. Koh) "Cone-nose" bugs in Asia. Science Journal, 1972; 30-36.
- 1973. Animals in the forest ecosystem. In: Animal Life and Nature in Singapore. Ed. S. H. Chuang. Singapore Univ. Press, pp. 53-73.
- 1973. Guide to Genera of Malayan Blattodea Gryllacridoidea and Tettigonioidea, Guide 9, Dept. of Zoology, Publication, University of Singapore (mimeographed).
- 1973. Guide to Genera of Malayan Ants based on the Worker Caste. Guide 10, Dept. of Zoology Publication, University of Singapore (mimeographed).
- 1973. First draft of a host/pest catalogue of insects attacking plants of economic importance in Singapore, with taxonomic references and indices of vernacular crop names. Guide 11, Dept. of Zoology Publication, University of Singapore (mimcographed).
- 1973. A mangrove inhabiting cricket from Peninsular Malaysia. Malay. Nat. J., 26: 171.
- 1976. Simple techniques for quick processing and examining complex arthropod structures, applied to genitalia of Sarcophagidae (Diptera). Rev. Brasil. Biol., 36(3): 595-598.

# RAFFLES BULLETIN OF ZOOLOGY 1991 39(1)

- 1977. The logistic and the life table. J. Biol. Sci., Univ. Sing. Biol. Sci. Soc., 1977; 40-59.
- 1980. (second author, with C. A. Viraktamath). Descriptions of Oriental Idiocerinae (Homoptera: Cicadellidae). J. Entom. Res., 4(1): 85-92.
- 1980 (fifth author, with L. M. Chou, S. H. Ho, H. W. Khoo, T. J. Lam and W. H. Tan) The present state of mangrove ecosystems in Singapore and the impact of pollution. SCS/80/WP/94d, 76 p. South China Sea Fisheries Development and Coodinating Programme.
- 1980. Insect Life. In: Children's Treasury of Knowledge. Time-Life. 110 pp. (text only).
- 1983. (first author, with Kwan Hun) An Eye on Nature. Maruzen Asia. x+86 pp.
- 1984. (second author, with L. S. Hamilton) Management and utilisation of Nipa Palm. Pp. 42-45 in Hamilton and Snedaker. Handbook for Mangrove Area Management. IUCN, XII+123 pp.
- 1984. Singapore Country Report, In: Rept. Mtg. ASEAN-Australia Cooperative Pgms. in Marine Sciences, Bangkok. 3 pp.
- Introduction to the mangrove ecosystem. Report UNDP/UNESCO 3rd Introductory Training Course on Mangrove Ecology, Singapore, pp. 31-33.
- 1985. General techniques for collection and preservation of mangrove animals. Report UNDP/UNESCO 3rd Introductory Training Course on Mangrove Ecology, Singapore, pp. 29-30.
- 1985. Onchidiacean sea-slugs (Mollusca Gastropoda). Report UNDP/UNESCO 3rd Introductory Training Course on Mangrove Ecology, Singapore, p. 45.
- 1985. The air-breathing arthropods of the mangrove ecosystem. Report UNDP/UNESCO 3rd Training Course on Mangrove Ecology, Singapore, pp. 39-41.
- 1988. Plant pest problems in Singapore. Suppl. Sing. J. Pri. Ind., 16(2): 38-41.
- 1988. (second author, with L. S. Hamilton). Use and Management of Nipa Palm (Nypa fruticans, Arecaceae): A Review. Economic Botany, 42(2): 206-213.
- 1989. Three new species of nymphuline moths from Singapore mangroves provisionally attributed to Eristena Warren (Lepidoptera: Pyralidae). Raffles Bull. Zool., 37 (1 & 2): 142-159, colour plate 1.
- 1989. A Paracopium (Hemiptera: Tingidae) from Clerodendrum inerme (Verbenaccae) which is not gall forming, with a note on other herbivores, Raffles Bull. Zool., 37(1 & 2): 168-170.
- 1990. The natural history of insect herbivory on mangrove trees in and near Singapore. Raffles Bull. Zool., 38(2): 119-203, 18 colour plates.
- 1990. (second author, with C. S. C. Lee) Some attempts at cluster analysis of stem count data from transects in a Singapore mangrove site. Coastal living resources if Singapore, Proc. Symp. on the Assessment of Living Resources in the Coastal Areas of Singapore, Ed. L. M. Chou, Singapore, Pp. 81-100.

## The Dennis H. Murphy Valedictory Issue

1990. The recognition of some insects associated with mangroves in Thailand. Four papers in insects and ground mesofauna at Ranong. Mangrove Ecosystems Occasional Papers, 7: 15-24.

1990. (first author, with W. Meepol) Timber beetles of the Ranong mangrove forest. Four papers in insects and ground mesofauna at Ranong. Mangrove Ecosystems Occasional Papers, 7: 5-8.

1990. (first author, with M. T. Rau) Ground mesofauna of the Khlong Ngau transects. Four papers in insects and ground mesofauna at Ranong. Mangrove Ecosystems Occasional Papers, 7: 9-13.

1990. (second author, with M. T. Rau) Herbivore attack on mangrove plants at Ranong. Four papers in insects and ground mesofauna at Ranong. Mangrove Ecosystems Occasional Papers, 7: 25-36.

1990. Walkers on water - An account of the pleuston of Singapore. In: Essays in Zoology, Eds L. M. Chou & P. K. L. Ng. Department of Zoology, National University of Singapore. Pp. 153-168.

1990. The air-breathing arthropods of the mangrove ecosystem. In: Essays in Zoology, Eds L. M. Chou & P. K. L. Ng. Department of Zoology, National University of Singapore, Pp. 169-175.

1990. General comments on the synthetic ecology of the mangrove ecosystem. In: Essays in Zoology, Eds L. M. Chou & P. K. L. Ng. Department of Zoology, National University of Singapore. Pp. 221-231.

1990. (first author, with J. B. Sigurdsson) Birds, mangrove and man - propects and promise of the new Sungei Buloh bird reserve, In: Essays in Zoology, Eds L. M. Chou & P. K. L. Ng. Department of Zoology, National University of Singapore, Pp. 233-243.

In press. Summarised recommendations on applications to management. UNDP/UNESCO Regional Project of Mangrove Research and its application to Mangrove Ecosystem Management in Asia, Final Report.

In press. (first author, with W. Meepol) Timber beetles of the Ranong mangrove forest. UNDP/UNESCO Regional Project of Mangrove Research and its application to Mangrove Ecosystem Management in Asia, Final Report.

In press. (first author, with M. T. Rau) Informal report on ground mesofauna of the Khlong Ngau transects, UNDP/UNESCO Regional Project of Mangrove Research and its application to Mangrove Ecosystem Management in Asia, Final Report.

In press. (second author, with M. T. Rau) Herbivore attack on mangrove plants at Ranong, UNDP/ UNESCO Regional Project of Mangrove Research and its application to Mangrove Ecosystem Management in Asia, Final Report.

In press. (first author, with & C. S. C. Lee) Preliminary interpretation of topography and vegetation at a Singapore mangrove site. First regional symposium of the ASEAN-Australia cooperative project "Living resources in coastal areas". 30 Jan - 1 Feb 1989, Manila.