

THE 1983 MEMORIAL LECTURER

MICHAEL W. SERVICE, Ph.D., D.Sc.

The 1983 AMCA Memorial Lecturer is a British scientist with a record of distinguished contributions in medical entomology. His main interests and expertise are in the ecology and biology of mosquitoes, especially those of Africa and England, and include population dynamics of vectors and sampling procedures. He has also greatly contributed to the ecology of *Simulium*.

He studied at the Imperial College of Science, University of London, where he received a B.Sc. (Honors) in 1955 and for the next nine years served as a research entomologist in Nigeria. The first five years were spent at Lagos, in the Malaria Service, under Professor L. J. Bruce-Chwatt studying the biology and taxonomy of mosquitoes. Then the next four years were spent in Kaduna in the Malaria Unit under Dr. M. Archibald working on the biology and ecology of malaria vectors and insecticidal trials and resistance tests. In 1966, he returned to England to work on the biology and ecology of British mosquitoes, *Culicoides* and *Simulium* at the Furzebrook Research Station in Dorset. He also received his Ph.D. in 1966 from the University of London, and D.Sc. in 1971.

From 1966 to 1973, he was Principal Scientific Officer at Monks Wood Experimental Station, Huntingdon, under Professor K. Mellanby where he continued working on the biology and ecology of mosquitoes and *Culicoides* with emphasis on population dynamics and modeling. His interest in the African mosquitoes continued as he pursued studies in ecology and cytogenetics of *Anopheles gambiae* complex. Some of these studies were pursued while a consultant for the World Health Organization. He was also involved in the development of serological techniques for the detection of mosquito predators and separation of sibling species. Then in 1973, he transferred to the Liverpool School of Tropical Medicine, Department of Medical Entomology, as Senior Lecturer. His emphasis there was on the cytotaxonomy of the *Anopheles gambiae* complex, and included some short-term work in Nigeria, Kenya and Gabon involving malaria surveys and ecological studies. He also devoted some time in devising serological methods for detecting predators of *Anopheles gambiae*, *Simulium damnosum* and tsetse flies.

In 1977, he became Reader in Medical Entomology and Head of the Department of Medical Entomology, Liverpool School of Tropical Medicine. During his career, he has had numerous consultancies with many organizations including WHO, NIH, CDC, IAEA and the British Council. Among his more interesting assignments was that of Leader of the Medical Team on the Colombian-Amazonas Expedition to study leishmaniasis in 1977. The following year he was appointed "Scientist in Residence" by the International Centre for Insect Physiology and Ecology in Nairobi, Kenya.

Dr. Service has authored over 136 scientific papers, mainly on mosquitoes and *Culicoides* but also on *Simulium* and *Chrysops*. In addition, he has written four books: *Mosquito Ecology: Field Sampling Methods* (1976); *A Guide to Medical Entomology* (1980); *Pest and Vector Management in the Tropics* (1983); and *Tropical Ecology: A Textbook for Africa* (1984); and is now working on a fifth book, *Applied Ecology for Africa*.