Mick Gillies (1920 – 1999)

Mike Gillies was the 4th child of a renown New Zealander plastic surgeon, Sir Harold Gillies, FRS. His entomologist career began early since he obtained the Winchester College Natural History Prize in 1938 for his essay on "The egg laying behaviour and biology of the immature stages of Ephemeroptera".

After the College, he followed his medical training and in 1944 was a military Medical Officer in the Far East. Then, after his release from the army, he was a doctor of the British Embassy in Moscow. When returning from Moscow, he abandoned medicine to study the insects carrying diseases rather than the diseases themselves. He became a talented "medical entomologist", studying Anopheles vectors of malaria. In 1951, he got a position at the "East African High Commission Medical Research Institute" in Amani, Tanganyka Territory (currently Tanzania) where he worked for 12 years. He then spent two years at the British Museum (Natural History) in London during which he revised the African mosquitoes collections. The result was the reference book he wrote with B. de Meillon on African Anopheles : "The Anophelinae of Africa South of the Sahara" (1968), supplemented later with M. Coetzee by “A supplement to the Anophelinae of Africa south of the Sahara" (1987).

In 1965, he was the head of the newly formed "Mosquito Biology Unit" in Sussex University, England, in parallel with researches undertaken with students in Gambia. He was also an expert to evaluate the potential risks of development of the Mosquitoes in Egypt during the construction of the Aswan dam. Mick retired in 1983 from his post at Sussex University.

The quality of his researches was several times rewarded : the Royal Society of Tropical Medicine and Hygiene in London awarded him in 1965 the "Chalmers Medal" for his research in tropical Medicine, as well as the "Christophers Medal" in 1982 for his work on tropical Medicine and Hygiene.

This is not the medical entomologist who is familiar to us, but the impassioned man of a peculiar group of insects considered as minor : mayflies. He had the opportunity to collect them throughout his peregrinations due to his military service in Asia (Pakistan, India, Burma, Thailand, Hong-Kong), during his assignment in Russia, or during his journeys in Africa: Egypt, Tanzania, West Africa. Both activities were well separated as it can be seen in his publication list. 61 of his
64 papers on mosquitoes were published when he was active as a medical entomologist (1953 – 1983), whereas he published 33 papers out of 52 on mayflies since 1983. He even published a paper on the Skippers (Lepidoptera, Hesperiidae).

We have to underline the accuracy of Mick’s diagnoses and writings concerning the mayflies. He was interested mainly in Baetidae, but published on all major mayfly families. One of his most famous work is without any doubt the first description of the adults of *Prosopistoma* in 1954.

As a young researcher, we went to know Mick through his publications on African mayflies, then through his correspondence. His letters, always kind, were not those of the doctor holder of the knowledge to his pupil knowing little about systematic and bioecology of the mayflies, but those of the anxious pedagogue to forge the spirit of future colleague, future researcher, even future rival. Mick always encouraged to observe, which is much more difficult than to see and even to look at. Later, during missions on the field, in Mali, Ivory-Coast and Guinea, Mike show us how to observe hidden facts, that is to say, to deduce a multitude of elements of morphology, biology, ecology and ethology of mayflies through very few judiciously interpreted observations. He had a rare vision of the interrelationships between the heredity and the environment, deduced from biological or morphological characteristics of the organisms observed.

Among many examples, I will quote only two of them: that of a nymph named *Machadorythus palanquin* and an adult named *Tricorythus maculatus*, two Tricorythidae not very frequent, but which were regularly collected in Guinea. One day thus, during an evening on the bank of the Niandan river, Mick told after one of these very long silences of which he had the secret: "you see, this nymph (*M. palanquin*) must live in sand, according to its protected gills and pedunculated eyes, undoubtedly in the nests dig by *Tilapia* and its adult must be *Tricorythus maculatus*. The males probably do not perform swarms because vegetation marks do not occur in these zones. That could be the reason why we caught so few of them at the same time, in the light traps". The rearing of nymphs and the future gave him reason.

The discovery of the mayfly nymphs colonising freshwater mussels was of the same type. *Mutelocloeon bihoumi* is a large baetid mayfly whose only adults were known so far. We never collected nymphs, even after thorough samplings of the rivers. One day Mick says "If the nymph is not found, it is because it is hidden. As the Baetidae nymphs are fragile, they must hide in a well oxygenated place where they have space and food. I see only the large freshwater mussels."

A few time later, mussels gave him reason.

His sense of humour, considered by French as typically British, was fine and percussive. Everybody now always enjoy his answer, when he dozed at the nap hour, jolting on a dust road of Guinea. "Mick, do you feel well ?", "Oh, Yes ! I'm still alive… and flourishing !".

Mick never missed the International Ephemeroptera Conferences; he was always joined by his wife, Eva, who took an important role in these events as a multilingual translator. Mick decided to write his biography a couple of years ago. The final point was written in December 1999. He passed away a couple of days later.


**Mick Gillies’ publications on Ephemeroptera**


