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## PALEOBIOLOGY MEETING OF 19.05.1984 (BRUSSELS)

On 19th May 1984 a «Paleobiology Meeting» was organised in the KBIN-IRSCNB. The Vice-President of the Society, Professor F. DE VREE, opened the meeting, which had been organised and was chaired by A. V. DHONDT of the Paleontology Department of the KBIN-IRSCNB.

#### Introduction

by

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A brief account was presented of the historical evolution of paleontological thinking and points of interest in paleontological research. From the end of the 19th century onwards, «The Origin of Species» and the resulting evolutionary thoughts basically influenced the way of working of some paleontologists. Interpretation of fossils as living animals was particularly important for Louis Dollo (1857-1931) who worked in the «Muséum d'Histoire naturelle» in Brussels from 1882 till his death. He was probably the first conscious paleobiologist. His pupil, colleague, friend, the Austrian paleontologist Othenio Abel (1875-1946), a frequent visitor to the Museum in Brussels, was the first to use the term « Paläobiologie ». He founded the journal « Palaeobiologica » which was published between 1928 and 1946. Abel defined paleobiology as « das Gesamtgebiet der Erforschung des Lebens der Vorzeit auf biologische Grundlage ».

During the 1930's the environment in which the fossils had lived was the origin of a new direction in paleontological research: paleoecology. Its founder is the Russian paleontologist Roman T. Hecker (born in 1900). In the 1960's functional morphology (or its German alternative «Konstruktionsmorphologie») gained importance in paleontological studies, partly as a reaction against numerical taxonomy and cladism (the Anglo-american interpretation of the theory of Hennig). Since the 1970's the term Paleobiology is frequently used. The technological developments made it possible to widen paleontological research; now genetics, geobiochemistry and theoretical paleontology are also part of the subject. The theoretical foundations of this new direction have been stated in «Models in Paleobiology» edited by Tom Schopf (1939-1984) in 1972. He defined Paleobiology as paleontology without biostratigraphy (which he classified as belonging to historical geology). This view is being expanded in the journal «Paleobiology» which Schopf co-founded in 1975.

The purpose of the meeting organised in the Kbin-Irscnb was to see how paleobiology is understood by Belgian paleontologists to-day, a century after the first publication of Dollo!

### I. FORAMINIFERA.

Foraminiferal Bio- and Thanatocoenoses on Reef Flats, Lizard Island, Great Barrier Reef, Australia; Nature of Substrate

by

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The foraminiferal communities on three reef flats of the reef complex of Lizard Island have been studied by the author. The Lizard Archipelago is situated in the Northern Province of the Australian Great Barrier Reef and consists of three granitic islands (Lizard, Palfrey and South) linked by a reef complex. The reef flats of the «Windward » and «Southern » barriers belong to a reef «barrier » system linking respectively Lizard and South, and South and Palfrey Islands. Both reef flats show comparable physiographic zonation, but upon the southern flat only impoverished coral growth occurs. The third reef flat belongs to the fringing reef system along the east coast of Lizard Island and, again, shows the same zonation except on the backreef area, where the microatoll zone rises up towards a sandy-gravelly beach.