

- III. "On *Proterosaurus Speneri* (von Meyer)." By H. G. SEELEY, F.R.S., Professor of Geography in King's College, London. Received February 3, 1887.

(Abstract.)

The author gives an account of the scientific history of *Proterosaurus*, and states the interpretations of its structure given by Cuvier, von Meyer, Sir R. Owen, and Professor Huxley.

In Part II he describes the type specimen in the Museum of the Royal College of Surgeons. In the skull characters are given of the cerebral cavity, the supra-occipital, parietal, frontal, pre-frontal, nasal, and premaxillary bones. A restoration is made of the skull and the teeth are shown to be ankylosed to the jaw. On the palate the vomer, palatine, and pterygoid bones are described and shown to have all been armed with minute teeth. The pterygoid bone was strongly united to the quadrate bone. The lower jaw and hyoid bones are also described.

In the vertebral column a description is given of the second to the seventh cervical vertebræ, of sixteen dorsal vertebræ, two sacral vertebræ, and twenty-three caudal vertebræ.

The femur, tibia and fibula and foot are also described. The skin is found to have been defended with a bony armour.

In Part III comparison is made between the type and other specimens which have been referred to it, with the result that some are regarded as indicating different species while others indicate different genera.

In Part IV a comparison is made to show the resemblances of *Proterosaurus* with other reptiles, in the several regions of the skeleton; with the result that the *Proterosauria* is regarded as a distinct division of the *Reptilia*, showing resemblances to many of the highly specialised orders and to some low types.

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Transactions.

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