length by ninety in breadth. It was also perceived in the island of Cyprus.

April 19.—Edward Herbert Bunbury, Esq., A.M., Fellow of Trinity College, Cambridge; Henry Boase, M.D., of Burton Crescent; and Thomas Jervis, Esq., Hon. East India Company's Engineers; were elected Fellows of this Society.

A paper was read, entitled "A description of the Cranium of the Toodon Platensis, a gigantic extinct mammiferous species, referrible by its dentition to the Rodentia, but with affinities to the Pachydermata and the Herbicronus Cetacea;" by Richard Owen, Esq., F.R.S., Hunterian Professor of Anatomy to the Royal College of Surgeons.

The author premises his anatomical description of the present fossil, by an abstract from Mr. Darwin's account of the geological structure of the district in which the cranium was found, from which it appears that it was imbedded in a whitish argillaceous earth, forming part of the banks of the Sarandis, a small stream entering the Rio Negro, and about 120 miles distant to the north-west of Monte Video.

The foundation of the whole surrounding country is granitic, but covered, often to a considerable thickness, by a reddish argillaceous soil, containing small calcarcous concretions.

soil, containing small calcareous concretions.

The cranium in question equals in size that of the hippopotamus, measuring two feet four inches in length, and one foot four inches in

extreme breadth.
The form of the skull is elongate, depressed, and chiefly remarkable for the strength and wide expanse of the zygomatic arches, and the aspect of the occipital formen and occipital region of the
portion of the skull is compressed laterally, narrow, with large intermunillary bones, slightly dilated at their extreme assignment of the skull is compressed laterally, narrow, with large intermunillary bones, slightly dilated at their extreme.

The teeth consist of molars and incisors. The latter are four in number in the upper jaw, the two middle ones very small, the two external ones very large, curred, and with their sockets extending backwards in an arched direction, through the internaalilary bones to the maxillary, and terminating, without diminishing in size, immediately anterior to the grinding teeth, where the large persistent pulso of these incisors were lodged. In form and relative size these teeth must have resembled the detate scalparatio of the Rodentia.

The molar teeth no less present a close approximation in their form and structure to the molar teeth of the herbivorous ordents, as is demonstrated in the detailed descriptions of one of these teeth found by Mr. Darwin in another locality, but belonging to the same species of Toxodon, and to an individual of the same size as that to which the cranium here described belonged; and of a portion of another molar lodged in one of the sockets of the same cranium. The molar teeth are seven in number on cach side of the upper jaw, and from the form of the sockets appear to have corresponded with each other in structure.

After this description of the teeth, the form, proportions, disposition and connections of the different bones of the cranium are pointed out; and the structure of the osseous cavities subservient to the organ of sense is adverted to, and deductions as to the aquatic habits of the Toxodon are founded on these observations.

So far as regards the form and position of the external aperture of the bory nostrila, and of the occipital condyles, and the slope of the plane of the occipital region of the skull, the same arguments might be advanced for referring the Tacodon to the manufireous group containing the Dugong, as have been recently urged in reference to the Deinotherium, but the existence of air-cells or sinuses in the superior parieties of the cranium in the Tacodon, show that the cranial characters above alluded to, are not conclusive as to the extension

nature of an extinct mammal.

The general conclusions respecting the affinities which the Toxodon bears to existing orders of mammalia, so far as opinions can be formed from the portion of the skeleton preserved, are summed up

by the author as follows:

So far as dental characters have weight, the Torodon must be referred to the rodent order; but from this order it deviates in the relative position of the supernumerary incisors, and in the number and direction of the curvature of the molars.

It again deviates in the transverse direction of the joint of the lower jaw, and in the relative position of the glenoid cavities and zygomatic arches. In the aspect of the plane of the occipital foramen, and occipital region of the swill, in the form and position of the occipital condyles,—the aspect of the plane of the boxy aperture of the most risk, and in the thickness and texture of the soaven and existing Pacifyderunds, and manifests an affinity to the Dinotherium and the Cetaceous order.

and the authority of the matter of the mass and a strength of the mass and a strength of the matter of the mass and concludes, therefore, the matter of the

May 3.—The Rev. Baden Powell, A.M., F.R.S., Savilian Professor of Geometry in the University of Oxford, was elected a Fellow of this Society.