

PROCEEDINGS
OF
THE ROYAL SOCIETY.

1830-1831.

No. 4.

March 24.

JOHN W. LUBBOCK, Esq. V. P. and Treasurer, in the Chair.

The following Presents were received, and thanks ordered for them :—

Notices of the Proceedings of the Geological Society. No. 19. 8vo.
—*Presented by the Society.*

Historical Researches on the Wars and Sports of the Mongols and Romans ; in which Elephants and Wild Beasts were employed or slain : and the remarkable local agreement of History with the remains of such Animals found in Europe and Siberia. With a Map and ten Plates. By John Ranking, Esq. 4to.—*The Author.*

Historical Researches on the Conquest of Peru, Mexico, Bogotà, Natchez, and Talomeco in the thirteenth Century by the Mongols, accompanied with Elephants ; and the local agreement of History and Tradition, with the remains of Elephants and Mastodontes found in the New World. With Maps and Portraits. By the same. 8vo.—*The Author.*

The Effects of the principal Arts, Trades, and Professions, and of Civic States, and Habits of Living on Health and Longevity. By C. T. Thackrah, Esq. 8vo.—*The Author.*

Cases of Lithotritry, or Examples of the Stone cured without Incision ; followed by a Description of the First Symptoms of the Disease. By Baron Heurteloup. 8vo.—*The Author.*

A Treatise on the Coco-Nut Tree. By J. W. Bennett, Esq. 8vo.
—*The Author.*

Mémoires de l'Académie Impériale des Sciences de St. Pétersbourg. Tome XI. 4to.

VI^{me} Série. (Sciences Mathématiques, Physiques et Naturelles) Tome premier ; 1re, 2me, et 3me livraison. 4to.

VI^{me} Série. (Sciences Politiques, Histoire, Philologie) Tome premier ; 1re, 2me, et 3me livraison. 4to.

Mémoires présentés à l'Académie Impériale des Sciences de St.

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Pétersbourg par divers Savans, et lus dans ses Assemblées. Tome premier ; 1re, 2me, 3me, et 4me livraison. 4to.—*The Academy*.
 Rapport sur un Voyage dans les Environs du Mont Elbrouz, dans le Caucase. Par M. Kupffer. 4to.—*The Academy*.
 Astronomische Nachrichten. No. 177–193. 4to.—*Professor Schumacher, Foreign Member, R.S.*

A paper was read, entitled “Description of a Mountain Barometer, the column of which is divisible into two portions for safer and more convenient transport.” By Mr. Thomas Charles Robinson. Communicated by Captain Henry Kater, F.R.S.

The object of the contrivance described in this paper is to reduce the length of the barometer, when not in use, to one-half the usual length ; and to render the position in which it may be carried indifferent. It consists of a glass tube eighteen inches long, cemented into a steel cistern two inches long, and one inch internal diameter, which is furnished with an internal screw, for receiving a hardened steel screw and hemisphere cemented to the end of a syphon tube. The long leg of this tube has an internal diameter of only the six or eight hundredths of an inch, and it is further contracted at the end to the twenty-fifth of an inch, so that no air can pass when the mercury is descending through it. The shorter leg of the syphon has the same bore as the tube.

When the two parts are screwed together, and the whole inverted, the mercury descends from the cistern, fills the long leg of the syphon, and ascends to a certain height in the shorter leg. Any air that may have existed in that part of the cistern which was not occupied by the mercury, is collected in an intermediate space, external to the column of mercury, and therefore can have no influence on the total height of that column, which is determined solely by the pressure of the external atmosphere. On gently reversing the position of the barometer, the mercury will repass from the syphon into the cistern, where it is confined by a stopper, as in a bottle : and may then be carried about in any position in perfect security.

The reading of a paper, entitled “An Account of further Experiments tried at Chatham, for the purpose of obtaining an artificial Water Cement,” by Brevet-Colonel C. W. Pasley, of the Corps of Royal Engineers, F.R.S. and Honorary Member of the Institution of Civil Engineers, was commenced.

The Society then adjourned over Easter to the 14th of April.

April 14.

HIS ROYAL HIGHNESS THE DUKE OF SUSSEX, K.G.,

President, in the Chair.

Joseph Hodgson, Esq. was elected a Fellow of the Society.