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confluentibus; rostro compresso, rotundato, viz recurvo, a margine postico sinu lato, angulato, sejuncto, superne ab umbonibus irregulariter crebre transversim corrugato; lunula longa, angusta, lanceolata, parum impressa; umbonibus parvis, incurvatis; pagina interna lactea, nitente corrugata; impres. musc. magnis sat conspicuis; fossa ligamenti, cochleariformi, prominenti. Long, 13, Lat. 22, alt. 9, long. rost. 7, lat. (circiter) 4, mill.

Shell fragile, oval, ventricose, anteriorly wider, rounded, obtusely angular; posterior with a long rostrum; milky white, opaque, concentrically sulcate and plicate, plaits 12 to 16, broad, flattened, angular above and subacute, becoming wider with age, prolonged upon the rostrum, deflected by a posterior sinus, then slightly curved, and often confluent; rostrum compressed, rounded, slightly re-curved, separated by a wide angular sinus, the upper part closely transversely corrugate from the umbones to the end; lunule long, narrow, lanceolate, slightly impressed; umbones small, incurved; interior dull milky white, shining, corrugate; muscular impressions large, rather conspicuous, ligamental fossa spoon-shaped and prominent.

This singular species is mainly remarkable for its broad corrugations, which show inside the valves, and for the singular sinus at the rostrum, where the plaits become straightened out, and either parallel or confluent, following the marginal side of the prolongation on whose upper side, fine striæ (which continue to the umbone) are given off at right angles to the axis. These striæ seem to agglutinate to themselves fine particles of sand, &c. The shell is somewhat like the British *N. cuspidata*, Olivi, but differs in the corrugations, the peculiar marks on the rostrum and the sinus, which in the species referred to is double. *Theora fragilis* has no proper rostrum, and is pellucid. *N. rugata* is finely striate on both rostrum and shell. There are some mesozoic fossil forms somewhat like the new species. *Neera* is a genus which has been existing from the Oolitic period, since when it has been gradually increasing in number.

On a variety of *TRIGONIA LAMARCKII*.

By REV. J. E. TENISON-WOODS, F.G.S.

I beg to call attention to an interesting variety of *Trigonia Lamarckii*, which I designate thus:—

Var. A, *Reticulata*. Testa tenui, parva, costis acutis, nodulis subspinosi, tota testa peculiariter reticulata.

This shell was dredged outside Port Jackson Heads by Mr. John Brazier, at a depth of 45 fathoms. The shell is small and thin, and the ribs are sharp, while the nodules are almost spinous. The whole surface is very finely reticulated or perhaps it would be more correct to say shagreened.

The fact of this variety having sharp ribs is of importance, as a fossil form is found in our Australian Cainozoic rocks, whose main point of distinction from the living *T. Lamarckii* is the possession of acute ribs and spinous nodules. This is McCoy's *T. acuticostata*. The present variety cannot be said to be a young shell, because young shells do not present any such peculiarities as may be seen from the specimens exhibited.

We have six described species of *Trigonia* in Australia, viz.—*T. Strangeii*, *T. Lamarckii*, *T. margaritacea*, *T. pectinata*, *T. uniophora*, and *T. Jukesii*. Probably there are only four distinct species, as *T. Lamarckii* and *T. pectinata* are the same, and *T. Jukesii*, Adams is a synonym for *T. uniophora* of Gray. See Voy. of H. M. S. "Fly."

There are two or three fossil species in our Australian Tertiary deposits, viz.—*T. semiundulata*, McCoy, *T. acuticostata*, McCoy, and *T. Howitti*, McCoy.

On a TERTIARY FORMATION at New Guinea.

By the REV. J. E. TENISON-WOODS, F.G.S., and Corr. Mem. Linn. Soc.

During the voyage of the Chevert a tertiary formation was found at Yule Island, New Guinea, and the fossils brought home on the occasion have been submitted to my examination by Mr.