

9) Packard's »brick-red gland« is of mesodermal origin. It contains in its interior the cavity of the fifth post-oral somite. Its inner end is terminated by a thin layer of flattened epithelium. It soon becomes folded on itself and the region of the bend grows rapidly forward. The outer limb of the fold becomes in time folded at four points and these new bends grow out in each body segment, giving rise to the lobes characteristic of the organ in the adult. With the folding numerous fusions of the walls occur, followed by perforations, giving rise to the peculiar anastomosing structure of the adult organ.

These points so briefly summarised, go far I think towards the support of that view which would recognise a close relationship between Arachnids and *Limulus*, while at the same time they serve to remove the *Merostomata* more widely from the *Crustacea*.

Woods Holl, Mass., July 17. 1890.

III. Mittheilungen aus Museen, Instituten etc.

1. Bitte.

Dr. Paul Pelseneer (Ecole normale, Gand) occupé à l'étude de Lamellibranches, serait reconnaissant à ceux de ses Collègues qui pourraient lui procurer des spécimens, en alcool, des genres :

Crassatella, *Gastrochaena*, *Pholadomya*, *Ungulina*, *Verticordia*.

2. Linnean Society of New South Wales.

30th July, 1890. — 1) Geological. — 2) and 3) Botanical. — 4) On a new genus of *Tenthredinidae*, with a description of two new species. By W. W. Froggatt. The writer describes two species of saw-flies allied to the Australian genus *Pterygophorus*, for which he proposes the generic name of *Philomastix*; they are remarkable for the handsome funnel-shaped joints of which the antennae of the male are composed, and the great length of the antennae of the female. The species described come from the northern parts of New South Wales and North Queensland. — 5) Additional Notes on *Peripatus Leuckarti*. By J. J. Fletcher, M.A., B.Sc. Some account is given of forty-two specimens of *Peripatus* from three new localities in this colony — Mt. Kosciusko, the Blue Mts., and Dunoon on the Richmond River — all collected since the last occasion on which the attention of the Society was drawn to this species. Apart from the interest attaching to the occurrence of the specimens from Mt. Kosciusko at high altitudes (5000—5700 ft.) where for several months in the year the ground is covered with snow, the collection as a whole is remarkable for the interesting variations of colour and pattern which are presented, but chiefly for the unusual abundance (50 per cent.) of males, the characters of which were not found to be precisely in agreement with those of the only two male specimens hitherto recorded; that is to say, round whitish papillae were found on some or all of

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Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Zoologischer Anzeiger](#)

Jahr/Year: 1890

Band/Volume: [13](#)

Autor(en)/Author(s): Anonymous

Artikel/Article: [1. Bitte 539](#)