Malayan Ferns

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LXI.—MALAYAN FERNS.

COL. R. H. BEDDOME.

The following notes on Ferns collected in the Malay Peninsula, from time to time, by Mr. H. N. Ridley, F.R.S., Director of the Botanic Gardens, Singapore, and transmitted by him to Kew, have been drawn up by Col. R. H. Beddome, F.L.S.; a description of one new species is included.

Alsophila glauca, *J. Sm.* (Ridley, 7868). This is less glaucous than the typical form, and the rhachis of the frond, as well as the stipe, is strongly armed with red prickles.

Alsophila dubia, *Bedd.* (Ridley, 7869 and 12534). More copious specimens of this tree fern prove that it is not specifically distinct from *A. commutata*, *Mett.*, which is very variable and includes narrow and broad pinnuled forms with intermediate ones.

Alsophila ornata, *J. Scott* (Ridley, 6551 and 7151). These exactly correspond to the Indian examples of *A. ornata*. Mr. Ridley has sent a very large series of specimens of *A. latebrosa*, *Wall.*, from various parts of the Malay Peninsula, which represent different stages between the type (which has the lobes of the pinnules only 1 cm. long and scarcely or very inconspicuously crenate), and *A. crenata*, *J. Scott* (which has the lobes 2.2 cm. long and conspicuously crenate). *A. ornata* must therefore be dropped as a species, but may be kept up as an extreme form under the name of *A. latebrosa*, var. *ornata*, *Bedd.*

Gibotium glaucum, *Hook. et Arn.* (Ridley, 9532). This has not been recorded previously from the Malay Peninsula, but exactly corresponds with Sandwich Island specimens. It differs from *C. Barometz*, *J. Sm.*, in its involucre and venation.

Microlepia Speluncae, var. *hirta*, *Bedd.* (Ridley, 7138). A form from Pulau Penang with the pinnules more deeply cut than usual.

Hypolepis punctata, *Bedd.* (Ridley, 7867). *Suppl. Ferns Brit. Ind.* p. 19. Ridley's specimens have a prominent involucre.

Pteris quadriaurita, var. *hamulosa*, *Bedd.* (*P. hamulosa*, *Wall.*) (Ridley, 6946). Collected in Johor.

Asplenium tenuifolium, *Don* (Ridley, 14001). Collected at Padang and with fronds much less cut than in the Indian forms.

Diplazium tomentosum, *Bl.* (Ridley, 11428). Collected in Perak. The pinnules are much more deeply cut than in the type: there are, however, intermediate forms in the Kew Herbarium.

Lastrea Ridleyi, *Bedd.*; species *Nephrodio* (*Lastreae*) *Thelypteri*, var. *squamuloso*, *Hook.*, affinis, rhizomate erecto pinnisque angustis recedit.

Rhizoma erectum. *Stipites* caespitosi, rigidi, erecti, obscure rufo-brunnei, 9 cm. longi, puberuli, squamis lanceolatis longe acuminatis (praesertim basi) instructi. *Fronde*s circa 15 cm. longae et 5 cm. latae, anguste oblongae, parte inferiore pinnata, apice pinnatifida, siccitate fere atrae; pinnac 18–20-jugae, alternae vel inferiores

suboppositae, coriaceae, 2 cm. longae, 8 mm. latae, fere ad rhachidem in lobos oblongos obtusos leviter crenatos minute ciliatos divisae, loborum paria 3-4 infima deflexa mediis minora; venae semper indivisae. Sori 1-3 ad quosque lobos, ad mediam venarum affixi; indusium non visum.

MALAY PENINSULA. Selangor: Bukit Hetam, *H. N. Ridley*, 7849.

The sori are over ripe and show no trace of an indusium, which if constantly absent would cause this plant to be placed in *Phegopteris*.

Lastrea cana, *J. Sm.* (Ridley, 7859). Collected at Selangor.

Nephrodium mouleminense, *Bedd.* (Ridley, 10972). Collected in Johor.

Nephrodium molle, *R. Br.* (Ridley, 6963.) A form with very narrow pinnules collected at Parmatang Bartan, similar to No. 3212 of a former collection from Gunong.

Nephrodium molle, var. *major*, *Bedd.* (*N. Papilio*, Hope) (Ridley, 7853). There are many forms intermediate between this and the type.

Polypodium subvenosum, *Baker* (Ridley, 7134 and 10172). Collected in Pulau Penang.

Polypodium minimum, *Baker* (Ridley, 12136). Collected in Johor, only recorded previously from Borneo.

Polypodium subpinnatifidum, *Bl.* (Ridley, 12035). Collected in Pulau Penang.

Goniophlebium amoenum, *J. Sm.* (Ridley, 12033). A form collected in Selangor differing from those hitherto known only in its smaller size.

LXII.—MISCELLANEOUS NOTES.

MR. T. F. CHIPP, who entered the service of Kew as a young gardener on April 2nd, 1906, and thereafter was employed, from September 17th, 1906, to October 10th, 1908, as a temporary Technical Assistant in the Herbarium, has successfully passed the B.Sc. examination in the University of London, with honours in Botany. We understand that he has been appointed Demonstrator in Botany at the Birkbeck Institute.

DR. MAURITS GRESHOFF.—With much regret we have to record the sudden death of Dr. M. Greshoff, Director of the Koloniaal Museum, Haarlem, during the night of December 7-8. Dr. Greshoff was the son of a medical practitioner, and studied at the University of Utrecht and afterwards at Jena. On taking his degree he entered the medical service of the Dutch East Indian Army and was sent to the Botanic Gardens, Buitenzorg, where from 1888-1892 he carried on an investigation of Indian poisonous plants. His results were published in two volumes in "Mededeelingen uit 's Lands Plantentuin." Owing to a breakdown in health, in 1892, he returned to Holland, and a few years later was