Studies in the Gesneriaceae of the Old World

VI.-Notes on Aeschynanthus

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I. AESCHYNANTHUS BRACTEATUS

The treatment of this species at the hands of botanists has varied from time to time. The name was first used for a plant from Pundua, Assam, by Wallich in 1828, but it was not described till 1845 when De Candolle treated it for his Prodromus. Four years later Lindley described A. Paxtoni from a plant in cultivation in Britain, but this has been by general consent regarded as a synonym of A. bracteatus and no more has been heard of it. In 1855 Sir J. D. Hooker published a beautiful illustration of a plant from near Darjeeling under the name A. Peelii Hook. f. & Thoms. A. Peelii was not accepted as a distinct species by C. B. Clarke. He reduced it first to a variety of A. bracteatus and later to a complete synonym of that species. In 1934 J. Anthony came to the opposite conclusion. He decided that A. Peelii could be distinguished by its relatively narrower leaves, peduncle exceeding the petiole and larger calvx and corolla. Anthony recognized a distinct variety, A. Peelii var. oblanceolata, with notably oblanceolate leaves and more slender peduncles. Finally in 1940 C. E. C. Fischer raised Anthony's variety oblanceolata to specific rank remarking that in his view, it was far more easily distinguished from A. bracteata and A. Peelii than these species were from one another. Fischer pointed out that the relative length of petiole and peduncle was not a reliable character when applied to a duplicate of Wallich's type which he had before him.

With additional material of this group awaiting determination, it has seemed desirable to go over the problem once more. Measurements of petiole and lamina, peduncle, calyx-lobes and corolla have been tabulated (Table 1). While these measurements show up the variation within the group, they show too that the variations in the flowers and the leaves are not always correlated. There is also seen to be a lack of any constant relation between geography and morphology. For example both long and shortly pedunculate forms have been collected by Lace near Darjeeling and by Kingdon Ward near Laktang. The variation in length of calyx-lobes in Yunnan alone covers almost the whole range of the group in that character. It is concluded, therefore, that there are at present no good grounds for recognizing A. Peelii as a species distinct from A. bracteatus.

The new material has produced one additional problem. When sorting the specimens, 10 of them were placed on one side owing to their strange superficial resemblance. The most obvious recognition character was the curious cinnamon colour of the undersides of the leaves, and at first this pile suggested an entity distinct from A. bracteatus. However, all these to sheets were found to have been collected by H. T. Tsai and all but one of them were definitely labelled Pign-pien Hsien, Yunnan. They may well

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represent only a single colony. Analysis showed that their measurements fell within the general range of A. bracteatus and the variation within them provided a useful check that such measurements are by no means constant even within a restricted area. When further information is available it may perhaps be possible to attach a more definite value to the leaf-colour character; till then, however, this group of specimens must also be included in the one variable species.

space of telephone but being the	Leaf	Leaf Breadth	Petiole Length	Peduncle Length	Calyx-lobe Length	Corolla
N. Bengal Lace 2366: Darjeeling Lace (Oct. 1912): Darjeeling	8	3.2	1 1.2	6	1.8	4.2
Assam Hooker & Thomson: Khasia Native collector: Khasia	9.5	3.2	0.2	1.2	0·8 1·2	
N.E. Upper Burma Ward 3113: Laktang Ward 3563: Laktang Farrer 1257: Hpawte Farrer 1258: Hpawte Forrest 9149: Sansi Gorge	6·5 7·5 9 6·5	2·5 3 2·5 2·5 4	I I I	1.2 5.2 1.2 1.2 4.2	1.8 1.8	4 2·5 4 3·5
Tibet Ward 6370: Tsangpo Gorge	6.5	2.25	1	1	1	10 0
Yumtan Forrest 9499: Tengueh Forrest 9271: Mingkwong Forrest 9271: Mingkwong Tasi 51935: ? Tasi 55999: Ping-pien Hsien Tasi 55232: Ping-pien Hsien Tasi 62395: Ping-pien Hsien Tasi 62395: Ping-pien Hsien Tasi 62395: Ping-pien Hsien Tasi 62722: Ping-pien Hsien Tasi 62722: Ping-pien Hsien Tasi 62722: Ping-pien Hsien	8·5 9 9 10·5 10 10 9·5 7	3 3.5 3 4 4.5 4.5 3.5 4.5 4.5 4.5 4.5	1 1 1 1 1-5 1 1 1	1 1 2 2·5 3 4 4 3·5 4 5	1.3 1.4 2.5 — — — — 1.3 1.5 1.4 1.3	4 4 4 — — 3 3·7
Tsai 61567: Ping-pien Hsien Tsai 62136: Ping-pien Hsien	7	4.2	I	5 3	1.6	3.2

TABLE 1. Measurements from herbarium material of Aeschynanthus bracteatus. All measurements are given in centimetres and are averages for the sheet concerned.

ABSCHYNANTHUS BRACTEATUS [Wall. (List No. 794: 1828) ex] DC. Prodr. ix, 261 (1845); C.B.Cl. Comm. et Cyrr. Bengal. t. 43 (1874), et in DC. Mon. Phan. v, 31 (1883), et in Hook. fil. Fl. Brit. Ind. iv, 342 (1884).

Syn.: A. Paxtoni Lindl. in Journ. Hort. Soc. iv, 79 (1849).

A. Peelii Hook. fil. et Thoms. in Hook. fil. Ill. Him. Pl. t. 17

(1855); Anthony in Notes Roy. Bot. Gard. Edinb. xviii, 190 (1934).

A. bracteatus var. Peelii (Hook. fil. et Thoms.) C.B.Cl. Comm. et Cyrt. Bengal. t. 44 (1874).

2. Aeschynanthus parasiticus

Aesolymanthus parasiticus was first described by Roxburgh as Incarvillea parasitica Roxb. (Plants of the Coast of Coromandel, iii, 88, tab. 291: 1819). Three years later D. Don founded the genus Trichosporum, basing his description of the genus and the two species he recognized on material collected by Wallich in Nepal. Under T. grandifform, however, Don cited as a synonym Incarvillea parasitica Roxb.; consequently T. grandiflorum is now uideed to be an illegitimate name.

Writing in 1825, Sprengel (Syst. Veg. ii, 836) retained the name Incarvillea parasitica Roxb., but 2 years later (Syst. Veg. Cur. Post. 238), adopted W. Jack's genus Aeschynanthus* and transferred to it Don's Trichosporum grandi florum, still however in an illegitimate sense with Incarvillea parasitica as a synonym. Nevertheless the name Aeschynanthus grandi florus (D. Don) Sprene, has persisted in openeal use down to the present day.

The combination Aeschynanthus parasiticus (Roxb.) Wall. was validly published in 1828 (Wallich, List No. 796), but has hitherto been ignored.

It must now be adopted in place of A. grandiflorus.

Aeschynanthus parasiticus (Roxb.) Wall. List, No. 796 (1828).

Syn.: Incarvillea parasitica Roxb. Pl. Corom. iii, 88, t. 291 (1819) et Fl. Ind. iii, 112 (1812); Spreng. Syst. Veg. ii, 838 (1825).

Trichosporum grandiflorum D. Don in Edinb. Phil. Journ. vii, 95 (1822) et Prodr. Fl. Nepal. 125 (1825).

Aeschynanthus grandiflorus (D. Don) Spreng. Syst. Nat. Cur. Post. 238 (1827); DC. Prodr. ix, 261 (1845); Hook. Bot. Mag. t. 3843 (1841); C. B. Clarke in DC. Mon. Phan. v, 22 (1833) et in Hook. fil. Fl. Brit. Ind. iv, 338 (1884).

3. A New Species from New Guinea

Aeschynanthus microcardia Burtt et Davidson, sp. nov. e sectione Microtrichio Benth.; e descriptione A. atrorubenti Schlechter affinis, sed foliis minoribus cordatis marginibus ciliatis petiolis brevioribus, calycis segmentis brevioribus, filamentis glabris, stylo sparsim glanduloso recedit.

Planta repens, caule tenui griseo parce ramoso ad apicem pilis brevibus rigidis albis praedito. Folia petiolis 1:5 mm. longis pilis brevibus rigidis albis praedito. Folia petiolis 1:5 mm. longis pilis brevibus rigidis indutis instructa; lamina carnosa, ovato-cordata, 1:4—2 cm. longa, 1:0—1:6 cm. lata, apice acuta basi cordata, supra glabra, subtus costa densius vestita excepta pilis multicellularibus parcis praedita, marginibus subintegris leviter revolutis ciliatis, nervis lateralibus indistinctis. Inflorescentia (an semper pseudo-terminalis, 2-3-flora, floribus allis solitaris in axilis foliorum ultiriorum interdum praestantibus. Pedicelli 2 cm. longi, pilis brevibus albis aliis parcis longioribus glandulosis intermixtis induti, chracteolati. Cafyx usque ad basin in segmenta 5 [inearia 6 mm. longa sparsim et breviter albo-pilosa. Corolla atrorubens, extra pilis rubris multicellularibus glandulosis parcis vestita, intus infra medio pilis squamiformibus retrores papillosa, tutos

^{*} Aeschynanthus Jack was actually published in 1823, one year after Trichosporum D. Don. Aeschynanthus, however, is now included in the list of Nomina generica conservanda.

cylindricus, arcuatus, 4 cm. longus, basi per 3 mm. bulboso-ampliatus 4 mm. diametro, supra abrupte ad 2 mm. latus angustatus, deinde sensim ad orem 7 mm. latum ampliatus; lobi anguste ovati, obtusi, 5 mm. longi, 3 mm. lati. Stamina 4; filamenta glabra, ad corollam per 2.3 cm. adhaerentia, parte libera 1.5 cm. longa; antherae 1 mm. longae, 0.75 mm. latae, apicibus per paria connatae. Discus 1 mm. altus, cupularis. Gynoecium 4.4 cm. longum, 2 mm. latum, stylo parce glanduloso-piloso, stigmate capitato 1.5 cm. diametro. Fructus circiter 13 cm. longus, 3 mm. latus, basi longe et sensim attenuatus, apice abruptius angustatus. Semina numerosa, utrinque pilo robusto o.5 mm. longo appendiculata, 1.5 mm. longa (appendiculis inclusis).

Papua. Gaunan, 1200 m., creeping over tree roots in Nothofagus forest, fls. dark red, leaves grey-green, 28 October 1952, N. E. G. Crutwell 388.

The section Microtrichium of Aeschynanthus is evidently strongly represented in the island of New Guinea, twenty-three species having been recorded by Schlechter (in Engler's Bot. Jahrb. lviii, 268: 1923) A. microcardia comes among the last nine species in Schlechter's key, but it does not fall neatly alongside any single one. On the whole its closest affinity appears to be with A. atrorubens Schlechter, with which it has been compared in the diagnosis above. A. atrorubens comes from the Sepik district, in the north-eastern part of the island. Gaunan (the locality for A. microcardia) is on the north-east side of the Owen Stanley Range.

Another close affinity may be with A. kermesinus Schlechter (more fully described in Nova Guinea, xiv, 309: 1927), but this comes from northwestern New Guinea and is easily distinguished by its less pointed leaves, smaller, lighter-coloured flowers on pedicels half the length of those of A.

microcardia, and densely glandular-villous style.

Only one species of this group has been described since Schlechter's revision. This is A. tenericaulis Diels (in Engler's Bot. Jahrb. lxii, 492: 1929) from the Sarawaged Mts., N.E. New Guinea. It differs from A. microcardia by its small more orbicular leaves being long-pilose on both surfaces and by its smaller glandular corolla.

The inflorescence of A. microcardia is described as pseudoterminal because the aggregation and early fall (or reduction?) of the uppermost pairs of leaves gives the appearance of a small terminal umbel, though in origin the flowers are doubtless solitary and axillary.

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VII .- A Second Species of the Genus Anna

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The genus Anna was established by Pellegrin (in Bull. Soc. Bot. France, lxxvii, 46: 1930) for a single species, A. submontana, from Tonkin. No further material was known when the same author contributed the account