

Plants Collected in the Mandated Territory of New Guinea by C. E. Lane-Poole.

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Plates IV. and V.

(Read before the Royal Society of Queensland, 26th September, 1927.)

After reporting on the forests of Papua, Mr. C. E. Lane-Poole proceeded to the Mandated Territory of New Guinea and made an investigation of the forests of that territory on behalf of the Commonwealth Government. In the course of the work he collected a large number of botanical specimens during the latter part of 1923 and in 1924. This paper contains records of the plants collected during that period. As a forester, Mr. Lane-Poole paid particular attention to the trees. Comprehensive notes on the specimens he collected and an account of his investigation will be found in his report, "The Forest Resources of the Territories of Papua and New Guinea," which was published by the Commonwealth Government in 1925. Unfortunately, 125 botanical specimens were destroyed by the natives in an attack upon Mr. Lane-Poole's camp on the Ramu River. The plants collected in Papua (British New Guinea) by Mr. Lane-Poole are dealt with by us in these Proceedings, Vol. XXXVIII., p. 225-261, 1927.

FAMILY GLEICHENIACEÆ.

Gleichenia dichotoma Hook. Nomi River, Finschhafen District, 549, sterile fronds, Novr., 1923.

FAMILY TAXACEÆ.

Podocarpus cupressina R. Br. Ogeramnang, Finschhafen District, 554, foliage specimens, Novr., 1923.

Podocarpus amara Blume. Ogeramnang, Finschhafen District, 552, foliage specimens, Novr. 1923.

Dacrydium elatum Wall. (?). Joangey, Finschhafen District, 567, foliage specimens, Novr. 1923.

Phyllocladus hypophyllus Hook. f. Salawaket, 9,000 ft., 518, foliage specimens, Novr. 1923.

FAMILY PINACEÆ.

Araucaria Cunninghamii Ait. Hanep, 639, foliage specimens, Feb., 1924.

Libocedrus papuana F. v. M. Salawaket, 520, foliage specimens, Novr., 1923.

FAMILY GNETACEÆ.

Gnetum gnemon Linn. Kulungtufu, Finschhafen District, 563, flowering specimens (male and female), Novr., 1923. C. E. Lane-Poole remarks that it is prized for its leaves as a vegetable and is cultivated at all altitudes.

FAMILY LILIACEÆ.

Dracæna angustifolia Roxb. Yonombo, 632, flowering specimens, Feb., 1924.

FAMILY IRIDACEÆ.

Libertia pulchella Spreng. Salawaket, 8,000–10,000 ft., 507, flowering specimens, Novr., 1923.

FAMILY FAGACEÆ.

Quercus lamponga Miq. Yunzain (Jungaing), Finschhafen District, 585, foliage specimens accompanied by old acorns, Decr., 1923.

Quercus spicata Smith var. *depressa* King. Yunzain, Finschhafen District, 582, fruiting specimens, Decr., 1923.

FAMILY MORACEÆ.

Dammaropsis Kingiana Warbg. Nomi Valley, Finschhafen District, 550, fruiting specimens, Novr., 1923. The petiole in these specimens measures 5 cm. in length.

FAMILY URTICACEÆ.

Laportea corallodesme Lautb. Yonombo, 633, flowering specimens.

Elatostemma macrophyllum Brongn. var. *majusculum* H. Winkl. Nomi River, 5,000 ft., Finschhafen District, 539, flowering specimens, Novr., 1923.

Elatostemma sesquifolium Hassk. Nomi River, 5,000 ft., Finschhafen District, 541, flowering specimens, 22nd Novr., 1923.

Cypholophus pachycarpus H. Winkl. Nomi River, 5,000 ft., 547, flowering specimens, Novr., 1923.

FAMILY LORANTHACEÆ.

Loranthus Novæ-Guinææ F. M. Bailey. Malu (230 miles up the Middle Sepik River), 790, flowering specimens, July, 1924.

FAMILY POLYGONACEÆ.

Muhlenbeckia platyclada Meissn. Ogeramnang, Finschhafen District, 551, flowering specimens, Novr., 1923. On tree stems.

FAMILY HIMANTANDRACEÆ.

Himantandra Belgraveana Diels. Ogeramnang, Finschhafen District, 556, foliage specimens, Novr., 1923; 568, Joangey, Finschhafen District, immature flowering specimens, Decr., 1923.

FAMILY LAURACEÆ.

Cinnamomum massoia Schewe var. *rotundatum* Schewe.
Finschhafen, 592, foliage specimens, Dec., 1923.

FAMILY SAXIFRAGACEÆ.

Kania eugenioides Schlechter. Ogeramnang, Finschhafen District,
558, flowering specimens, Novr., 1923.

Polyosma lagunensis Merrill. Likdin (Lavengai—New Hanover of
Germans), 801, flowering specimens, Aug., 1924.

FAMILY CUNONIACEÆ.

Weinmannia Ledermanii Schlechter. Likdin (Lavengai—New
Hanover of Germans), 802, fruiting specimens, Aug., 1924. The speci-
mens differ from those described by Schlechter, Engl. Bot. Jahrb. 52,
162 (1914), in the pubescent petiole and leaf rhachis. In this respect
they approach *W. papuana* Schlechter.

FAMILY ROSACEÆ.

Rubus Ferdinandi-Muelleri Focke. Salawaket, 10,000 ft., 511 and
512, flowering specimens, Novr., 1923. For the determination of these
specimens we are indebted to Mr. V. S. Summerhayes, Royal Botanic
Gardens, Kew.

Parinarium laurinum A. Gray. Mavelo River, 810, fruiting
specimens, Septr., 1924. Lane-Poole states that the rind of the fruit is
grated on the stem of a Pandanus and used as a caulking for canoes by
the natives.

FAMILY LEGUMINOSÆ.

Serianthes sp. Allied to *Serianthes grandiflora* Benth. The speci-
mens differ from descriptions of *S. grandiflora* in having narrower (7 mm.
wide), and more numerous (13–15 pairs) leaflets and in the greater
distance (1.5 cm.) of the gland from the base of the petiole. Amage
(Upper Ramu), 649, flowering specimens, March, 1924.

Afzelia bijuga A. Gray. Finschhafen, 588, foliage specimens, Decr.,
1923.

Bauhinia Schlechteri Harms. Mogendo (Lower Sepik River), 793,
foliage specimens accompanied by pods. Pod 25 cm. long and 9 cm.
broad, containing 4 seeds. Seeds obliquely orbicular, 3–4 cm. in breadth,
6–10 mm. thick.

Pterocarpus indicus Willd. Finschhafen, 587, fruiting specimens,
Decr., 1923.

FAMILY RUTACEÆ.

Evodia accedens Blume sens. lat. Ramu, 630, flowering specimens,
Feb., 1924.

FAMILY MELIACEÆ.

Cedrela Toona Roxb. var. Yalu, 626, foliage specimens accompanied
by dry capsules, Decr., 1923.

FAMILY OXALIDACEÆ.

Averrhoa Bilimbi Linn. Malu (230 miles up Middle Sepik River), 789, fruiting specimens, July, 1924.

FAMILY EUPHORBIACEÆ.

Breynia cernua Muell. Arg. Yalu, 611, fruiting specimens.

Baccaurea papuana F. M. Bailey. Yalu, 625, flowering specimens, Decr., 1923.

Bridelia subnuda K. Sch. et Lauterb. Mogendo (Lower Sepik River), 794, flowering specimens, July, 1924.

Homalanthus populifolius Grah. Joangey, Finschhafen District, 576, flowering and fruiting specimens, Decr., 1923.

FAMILY ANACARDIACEÆ.

Spondias dulcis Forst. f. Mavelo, 809, flowering specimens, Septr., 1924.

Dracontomelum mangiferum Blume. Yalu, 613, fruiting specimens, Decr., 1923.

Campnosperma brevipetiolata Vlk. Marienburg, Lower Sepik River, 785, fruiting specimens, July, 1924; 799, Likdin (Lavengai—New Hanover of Germans), flowering specimens, Aug., 1924.

FAMILY SAPINDACEÆ.

Pometia pinnata Forst. Finschhafen, 586, foliage specimens, Decr., 1923.

Dodonaea viscosa Linn. Ogeramnang, Finschhafen District, 561, fruiting specimens, Novr., 1923.

FAMILY ELÆOCARPACEÆ.

Echinocarpus papuanus Schlechter. Yunzain (Jungaing), Finschhafen District, 583, specimens bearing flowers and accompanied by capsules, Decr., 1923. Capsule oval or elliptical, hard and woody, 5–6 cm. long, 3–4 celled, outer surface glabrous and unarmed in the old specimens at hand.

Anoniodes pulchra Schlechter. Joangey, Finschhafen District, 581, specimens accompanied by capsules, Decr., 1923. The capsules are ovoid or globose, hard and woody, 3–4 celled, 4–5 cm. long, densely pubescent on outside and armed with somewhat flexible, almost pungent processes attaining 1.8 cm. in length, the indumentum of the capsule extending along the processes but absent from their apices. The seeds are described by Lane-Poole as red with black tips.

FAMILY MALVACEÆ.

Hibiscus D'Albertisii F. v. M. Abunti, 786, flowering specimens, July, 1924.



Fig. 2.—*Eurya albiflora* sp. nov.

Both natural size.

Fig. 1.—*Saurauja emarginata* sp. nov.

FAMILY STERCULIACEÆ.

Pterocymbium stipitatum White and Francis. Yalu, 602, flowering specimens, Decr., 1923. This species is illustrated in the authors' paper in these Proceedings, XXXVIII., 242 (1927).

FAMILY DILLENIACEÆ.

Saurauja emarginata sp. nov. (Plate IV., fig. 1.)

Arbor parva, partibus junioribus et ramulis et petiolis et pedunculis et foliis subtus lepidis triangularibus obteectis; foliis petiolatis, oblanceolatis serratis apice acutis et mucronulatis basem versus angustatis subtus pallidioribus nervis lateralibus 8-10 in utroque latere supra impressis subtus elevatis; floribus albis axillaribus singularibus, pedunculis in parte superiore bi-bracteatis, calyce alte 5-lobato, lobis ovatis obtusis intus ad basem pubescentibus; petalis emarginatis; antheris numerosis, linearibus loculis rima dehiscentibus, ovario globoso dense pubescenti, stylis 5 basem versus connatis.

Described by the collector as a small tree 4.5 m. high. Young shoots, branchlets, petioles, peduncles and underside of leaves furnished with a few triangular scales 1-1.5 mm. long. Branchlets terete, about 2 mm. in diameter 10 cm. below apex. Petioles 1-3 mm. long. Leaf blades oblanceolate, serrate, apex acute and mucronate, narrowed towards the base, under side paler than upper side, midrib and lateral nerves visible on both sides but more prominent on the under side, reticulate veins visible and impressed on upper side, 5-7 cm. long, 3-3½ times as long as broad. Flowers single in the axils, described by the collector as white, glabrous except for an occasional scale on the calyx, the densely pubescent ovary and pubescent inner side of the calyx lobes at their base. Peduncles 3 cm. long with two opposite ovate-lanceolate bracts 7 mm. long situated about 6 mm. below the flower. Calyx divided to the base; lobes ovate, obtuse, 8 mm. long, 3-4 mm. in breadth. Petals emarginate or notched at the apex, 13-15 mm. long, about 5 mm. in breadth. Anthers numerous, linear, 2.5-3 mm. long, attached at the back near the base, opening in longitudinal slits; filaments exceedingly short. Ovary globose, densely pubescent, 5-celled; styles 5, 5 mm. long, united towards base.

Locality: Edge of limestone precipice above Nomi River, 7,000 ft., 528, C. E. Lane-Poole, Novr., 1923.

Allied to *S. Roemeri* Lauterb., from which it differs in its smaller leaves, single-flowered inflorescence, and narrower bracts and calyx lobes.

Saurauja conferta Warbg. Nomi River, 5,000 ft., Finschhafen District, 538, flowering specimens, Novr., 1923. Differs from Warburg's description in having larger leaves (up to 30 × 11 cm.), longer peduncles (up to 5.5 cm.), and longer styles (up to 1 cm.).

FAMILY TERNSTRÆMIACEÆ.

Eurya albiflora sp. nov. (Plate IV., fig 2.)

Frutex vel arbor parva, ramulis et foliis subtus pilis longis sericeis fuscis dense vestitis, foliis distichis petiolatis cordatis vel ovatis coriaceis apice emarginatis margine serrulatis subrecurvis costa media et venis supra alte impressis floribus alvis glabris pedicellatis axillaribus singularibus vel 2-3 fasciculatis, pedicellis puberulis; bracteis 2 ovatis obtusis; sepalis imbricatis concavis orbicularibus; petalis obovatis ad basem brevissime connatis; staminibus 5, filamentis complanatis, antheris ovatis ad basem cordatis; ovario ovoideo.

Described by collector as a shrub or small tree about 6 m. high. Branchlets and underside of leaves densely pubescent with long, brown hairs. Branchlets about 2 mm. in diameter 10 cm. from apex. Branchlets slightly flexuose. Leaves distichous. Petioles about 1 mm. long. Leaf blades cordate or ovate, apex finely emarginate, margins finely serrate, somewhat recurved, texture thick, midrib, lateral nerves and a few reticulations prominent and impressed on the upper surface, venation obscured by the long hairs on the under side, 13-17 mm. long, 9-10 mm. wide. Flowers white (C. E. Lane-Poole), glabrous, axillary, mostly single, or in clusters of 2 or 3. Pedicels puberulous up to 2 mm. long. Bracts subtending flowers 2, ovate, obtuse, 2 mm. long. Sepals strongly imbricate, concave, orbicular, attaining 3 mm. in breadth. Petals obovate, very shortly united at base, 3 mm. long. Stamens 5, alternating with petals, about 3 mm. long; filaments flattened, 2 mm. long; anthers ovate, cordate at base, about 2 mm. long. Ovary ovoid, 1.5 mm. long.

Sarawaket, 10,000 ft., 505, C. E. Lane-Poole. Novr., 1923.

In appearance the new species approaches the Philippine *Eurya buxifolia* Merrill, from which it is readily distinguished by its smaller, obtuse leaves and densely pubescent branchlets and underside of leaves.

FAMILY OCHNACEÆ.

Schuurmansia Henningsii K. Sch. Joangey, Finschhafen District, 580, flowering specimens, Decr., 1923.

FAMILY THEACEÆ.

Gordonia fragrans Merrill. Likdin (Lavengai—New Hanover of Germans), 804, flowering and fruiting specimens, August, 1924. The specimens differ from Merrill's description (Philipp. Jour. Science, 1, suppl. 1, 95-96, 1906) in having shorter petals (1.5 cm. long) and shorter fruit (2 cm. long).

FAMILY FLACOURTIACEÆ.

Pangium edule Reinw. Wide Bay, 811, fruiting specimens, Sept., 1924. Lane-Poole remarks that the kernel of the nut is eaten by the natives after washing to remove toxic principle (hydrocyanic acid).



Fig. 2.—*Hoya Poolei* sp. nov.

Both natural size.

Fig. 1.—*Mearnsia cordata* sp. nov.

Homalium pachyphyllum Gilg. Korindal, 798, flowering specimens, Aug., 1924.

FAMILY DATISCACEÆ.

Octomeles sumatrana Miq. Yalu, 589, fruiting specimens, Decr., 1923.

FAMILY LECYTHIDACEÆ.

Barringtonia quadrigibbosa Lauterb. Likdin (Lavengai—New Hanover of Germans), 803, flowering specimens, Aug., 1924. In the absence of the fruit the determination is somewhat doubtful. The racemes in the specimens attain 70 cm. in length.

Planchonia timorensis Blume. Yalu, 606.

FAMILY MYRTACEÆ.

Mearnsia cordata sp. nov. (Plate V., fig. 1.)

Arbor parva partibus junioribus tomentosis; foliis brevissime petiolatis cordatis apice obtusis acuminatis vel rarius rotundatis margine recurvis nervis lateralibus in utroque latere 12 venis et venulis et supra et subtus visibilibus sed subtus multo prominentioribus; floribus glabris parte inferiore defoliata ramulorum ortis, in fasciculis umbellis vel racemis brevis dispositis; calycis lobis 4 latis obtusis; petalis 4, orbicularibus, staminibus 15–20, filamentis filiformis, antheris avatis; ovario 2-loculari (?), stylo tenuo.

Described by collector as a small tree up to 9 m. high. Young branches tomentose, very young leaves pubescent. Branchlets 2.5 mm. in diameter 18 cm. from apex, the older parts covered by a loose, brown bark. Petioles very short and broad, 1–2 mm. long. Leaf blades cordate, acuminate or occasionally round at apex, margins recurved, midrib, about 12 lateral nerves on each side of midrib and numerous reticulate veins visible on both surfaces but raised and prominent on the underside, 3–5 cm. long; the broad leaves are nearly as broad as long, the narrow ones about twice as long as broad. Flowers glabrous, in clusters, umbels or short racemes on the branches below the leaves. Pedicels 3–6 mm. long. Calyx campanulate, about 4 mm. long, the upper free part of the tube spreading and about 1.5 mm. long, lobes 4, broad, obtuse. Petals 4, orbicular, about 2 mm. in diameter. Stamens 15–20; filaments filiform, red (C. E. Lane-Poole), attaining 11 mm. in length; anthers ovate, basifixed, about .5 mm. long. Ovary apparently 2-celled; style slender, 12 mm. long.

Limestone precipice above Nomi River, 534, C. E. Lane-Poole, Novr., 1923.

This species is allied to *Mearnsia ramiflora* Diels. from which it differs in its cordate leaves.

Eucalyptus Naudiniana F. v. Mueller. Korindal, 797, flowering specimens, 1st Aug., 1924.

FAMILY MELASTOMACEÆ.

Osbeckia chinensis Linn. Grass hills, upper Ramu up to 1,700 ft., 638, flowering specimens, 29th Feb., 1924.

FAMILY UMBELLIFERÆ.

Enanthe Schlechteri Wolff. Nomi River, 5,000 ft., Finschhafen District, 542, flowering specimens, Novr., 1923.

FAMILY ERICACEÆ.

Rhododendron Commonæ Forster. Salawaket, 6,000–9,000 ft., 502, flowering specimens, 20th Novr., 1923.

Rhododendron Carringtoniæ F. v. M. Divide between Nomi and Ake, Salawaket, 7,000 ft., flowering specimens, Novr., 1923. The flowers are longer (8.5 cm.) and the corolla tube narrower (less than 4 mm. in diameter) than described by Mueller. The stamens are exserted. Lane-Poole remarks that the flowers are white and fragrant.

Rhododendron Hansemanni Warbg. Edge of limestone precipice above Nomi River, 7,000 ft., Finschhafen District, 531, flowering specimens, Novr., 1923.

Rhododendron warianum Schlechter. Edge of limestone precipice above Nomi River, 7,000 ft., Finschhafen District, 532, flowering specimens, Novr., 1923.

Diplycosia mundula Schltr. Salawaket, 6,000–12,000 ft., 504, flowering specimens, 20th Novr., 1923.

Agapetes Moorhousiana F. v. M. Joangey, Finschhafen District, 575, flowering specimens, Decr., 1923. Lane-Poole describes the flowers as rose-coloured.

FAMILY SAPOTACEÆ.

Chrysophyllum Roxburghii G. Don. Yalu, 614, fruiting specimens, Decr., 1923.

FAMILY LOGANIACEÆ.

Fagraea obovata Wall. Edge of limestone precipice above Nomi River, Finschhafen District, 533, flowering specimens, Novr., 1923.

FAMILY GENTIANACEÆ.

Exacum tetragonum Roxb. Grass hills of upper Ramu up to 1,700 ft., 636, flowering specimens, Feb., 1924.

FAMILY APOCYNACEÆ.

Alstonia macrophylla Wall. Joangey, Finschhafen District, 571, flowering specimens, Decr., 1923.

Alstonia scholaris R. Br. Yalu, 594, foliage specimens.

FAMILY ASCLEPIADACEÆ.

Hoya Poolei sp. nov. (Plate V., fig. 2.)

Planta scandens glabra; foliis petiolatis textura carnosus (in sicco coriaceis) lanceolatis vel ellipticis apice acuminatis; pedunculis axillari-bus, umbellis 6-8 floris, pedicellis tenuissimis calycis lobis lanceolatis, corollæ lobis deltoideis, coronæ foliolis horizontalibus anguste ovoideis supra concavis.

Described by collector as a Hoya-like creeper. Glabrous. Petioles 4-6 mm. long. Leaf blades fleshy, lanceolate or elliptical, acuminate, venation indistinct in dried specimens, 6-9 cm. long, about thrice as long as broad. Peduncles axillary, 2-3 cm. long, bearing an umbel of 4-8 flowers. Pedicels very slender, 8-17 mm. long. Flowers glabrous, described by collector as white with pink centres. Calyx about 4 mm. in diameter; lobes lanceolate, about 1 mm. long. Corolla about 1.2 cm. in diameter, lobes deltoid about 3 mm. long. Corona scales horizontal and spreading to about 2.5 mm., narrowly ovoid, concave above, posterior obtuse.

Locality: Joangey, South-Eastern end of Finisterre Range, 566, C. E. Lane-Poole, Decr., 1923.

Allied to *Hoya gracilipes* Schlechter (Nachtrage, Fl. deutsch. Schutzgeb. Sudsee, 363, 1905) from which it differs in its shorter peduncles and glabrous corolla.

FAMILY CONVOLVULACEÆ.

Ipomœa Batatas Poir. Sweet Potato. Kulungtufu, Finschhafen District, 564, flowering specimens, Novr., 1923. Common in old garden lands.

FAMILY BORAGINACEÆ.

Cordia Myxa Linn. Lea, 628, flowering specimens, Jan., 1924.

Zoellera procumbens Warbg. Salawaket, 8,000-12,000 ft., 506, flowering specimens, Novr., 1923.

FAMILY VERBENACEÆ.

Vitex Cofassus Reinw. Yalu, 590, flowering specimens, Decr., 1923.

FAMILY SOLANACEÆ.

Solanum aviculare Forst. Nomi River, Finschhafen District, 544, flowering and fruiting specimens, Novr., 1923.

FAMILY GESNERACEÆ.

Bæa lanuginosa Lauterb. et Schum. Hanep, 640, flowering specimens, Feb., 1924.

Dichrotrichum Chalmersii F. v. M. Joangey, Finschhafen District, 572, flowering specimens, Decr., 1923. Lane-Poole describes the flowers as wine-coloured.

FAMILY ACANTHACEÆ.

Calycacanthus Magnusianus K. Schum. Rain forest on hills of upper Ramu to 3,000 ft., 637, flowering specimens, 29th Feb., 1924.

FAMILY RUBIACEÆ.

Mitragyna parvifolia Korth. Awatib, 792, fruiting specimens, July, 1924.

Mussaenda frondosa Linn. var. *glabriflora* K. Sch. Joangey, Finschhafen District, 565, flowering specimens, Decr., 1923.

FAMILY COMPOSITÆ.

Olearia vernonioides White and Francis. Salawaket, edge of Libocedrus forest and grass lands, 509, flowering specimens, Nov., 1923.

Blumea chinensis DC. Joangey, Finschhafen District, flowering specimens, Decr., 1923.

Emilia prenanthoidea DC. Edge of limestone precipice above Nomi River, Finschhafen District, 537, flowering specimens, Novr., 1923.



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