

REVIEWS

Recent Literature : Botany-Embryophyta

Airy Shaw, H.K.

1973. Two new taxa in *Gonystylus* Teijsm. & Binnend.
(Thymelaeaceae)

Kew Bull. 28(2) : 267-268.

One species and one variety are described from Sarawak.

1973. New or noteworthy species of *Antidesma* (Stilaginaceae)

Kew Bull. 28(2) : 269-281.

New taxa of four species and six varieties are described from Malesian area.

Airy Shaw, H.K., D.F. Cutler & Siwert Nilsson

1973. *Pottingeria*, its taxonomic position, anatomy and polynology.
Kew Bull. 28(1) : 97-104, 1 plate, 1 figure.

Taxonomically the genus *Pottingeria* belongs to the family Celastraceae and deserves its own subfamily, *Pottingerioideae* Airy Shaw; the genus was formerly placed in the family Saxifragaceae.

This monotypic species also occurs in Thailand and represented by *Pottingeria acumnata* Prain var. *latifolia* Airy Shaw, based on *Put 3386* from Doi Nang Ka (Inthanon), Chiang Mai (6 Nov. 1930).

Banerji, M.L. and B.B. Thapa

1972. Orchids of Nepal—6

J. Bombay Nat. Hist. Soc. 69(2) : 283-289, 4 figs.

Dealing with *Cremastra*, *Oreorchis*, *Cymbidium*, *Anthogonium*, *Calanthe*, *Pachystoma* and *Spathoglottis*, an artificial key to genera is given,

Banerji M.L. and B.B. Thapa

1973. Orchids of Nepal—7

J. Bombay Nat. Hist. Soc. 70(1): 25-35.

Dealing with 24 species belonging to *Acampe*, *Aerides*, *Chiloschista*, *Esmeralda*, *Gastrochilus*, *Luisia*, *Ornithochilus*, *Rhynchostylis*, *Sarcanthus*, *Vanda* and *Vandopsis*, an identification key to genera is provided.

Baas, P.1973. The wood anatomical range in *Ilex* (Aquifoliaceae) and its ecological and phylogenetic significance.

Blumea 21: 193-258. 11 Plates & 15 photos.

The wood anatomy of 81 species of *Ilex* is described in detail. Temperate and subtropical species are characterized by conspicuous growth rings; in tropical low land species growth rings are absent or less marked.

**Bisset, N.G., P.W. Leenhouts, A.J.M. Leeuwenberg,
D. Philcox, Christiane Tirelroudet, and J.E. Vidal**1973. The Asian species of *Strychnos*. Part II. Typification, miscellaneous notes, synoptic key, and sectional classification.

Lloydia 36: 179-201.

A synoptic key and a revised sectional classification for 44 accepted species are provided.

Bogner, J.1973. Die Gattung *Pycnospatha* Thorel ex Gagnep. (Araceae).

Oesterr. Bot. Zeit. 122: 199-216, 8 figs.

Formerly *Pychospatha* was placed in the subtribe *Calloideae* by Gagnepain, to which the author disagreed; to rectify this, he establishes a new subtribe *Pychnospathiane* basing on its hermaphroditic flowers. So far only 2 species are known to science: *P. palmata* Gagnep. found once only

in Laos (Ben-Chom, Sedom, South of Bassac, Thorat 2404—Holotype) and *P. arietina* Gagnep. (Syn. *P. soerensenii* S.Y. Hu) found in Thailand (Wattana Nakhon, Kerr 18098, 19875, Put 1949, 1908; Muak lek, Saraburi Put 1857, Kerr 17580; Chanthaburi, Makham, Soerensen, Larsen, and Hansen 7217 (Holotype of *P. soerensenii*), Bogner 395.

P. palmata is expected to occur in Thailand.

Dransfield, J.

1973. *Korthalsia hispida* Becc. in Malaya.
Gard. Bull. Sing. 26(2): 239-244, 2 figs.

Korthalsia hispida a newly recorded species from Gunung Panti, Johore, Malaya, is fully described; characteristic ochrea types in *Korthalsia* are illustrated.

Drenth, E.

1972. A revision of the family Taccaceae
Blumea 20: 367-406, 3 plates, 4 maps and 2 figs.

In this revision of Taccaceae 1 genus and 10 species are accepted; two new species are described, one from Borneo and one from the Solomons and New Guinea. The genus *Schizocapsa* have been reduced as a synonym of *Tacca*.

Species occurred in Thailand are *T. leontopelaloides* (Linn.) O. Kuntze, *T. integrifolia* Ker-Gawl, *T. plantaginea* (Hance) Drenth, *T. chantrieri* André, and *T. palmata* Bl.

Ferguson, I.K. and T. Santisuk

1973. Notes on the pollen morphology of some Asiatic Bignoniaceae.
Kew Bull. 28(2): 187-194, 4 plates.

The pollen morphology of 7 Asiatic species of the genera *Radermachera*, *Heterophragma* and the new genus *Barnettia* is comparatively studied and found to support the taxonomic separation of the genera. The article is illustrated with fine photographs under scanning electron microscopy.

Galil, J.

1973. Pollination in dioecious figs. Pollination of *Ficus fistulosa* by *Ceratosolen hewitti*.

Gard. Bull Sing. 26(2): 303-311, 12 figs.

The pollination in the dioecious fig *Ficus fistulosa* was studied in Singapore. The pollinator, a female wasp, possesses thoracic pockets and coxal combs to collect pollen from detached anthers cut by the male wasps.

Geesink, R.

1972. A new species of *Langsdorffia* from New Guinea (Balanophoraceae).

Acta Bot. Neerl. 21(1): 102-106, one figure.

Langsdorffia papuana is described and illustrated, being the second species of the hithertoknown monotypic genus.

1973. A synopsis of the genus *Swertia* (Gent) in Malesia.

Blumea 21: 179-183.

Dealing with 6 species with one new variety and 4 subspecies.

Grosser, Dieter & Walter Liese

1971. On the anatomy of Asian bamboos, with special reference to their vascular bundles.

Wood Sci. Tech. 5: 290-312, 17 figs.

The anatomical structure of the culms characterized by the collateral vascular bundles can be classified basically into 4 types; such characteristics can be used taxonomically, correlating with the character of ovary.

The method of collecting the sample is given.

1973. Present status and problems of bamboo classification.

J. Arnold Arbor. 54: 293-308, 5 figs.

The problems of the classification of bamboos is being discussed with the prospect of using anatomical characters for the identification of sterile materials which the authors found to correlate with the recent classification proposed by R.E. Holtum.

Hartog, C. den

1973. *Blyxa quadricostata* nov. sp., a new hydrocharitacea from Thailand.

Blumea 21 : 185-187, one figure.

The plant formerly identified as *B. octandra* (Roxb.) Planch. ex Thw. from Phu Kradung, Loei in Thailand, is recognized as a new species.

Heel, W.A. van :

1973. Flowers and fruits in Flacourtiaceae 1. *Scaphocalyx spathacea* Ridl.

Blumea 21 : 259-279. 4 figs.

Descriptions are given of flowers, fruits, and seeds. It is thought that this Malaysian plant is a very unusual, possibly ancient, monotype.

Holttum, R.E.

1973. A new bamboo from Mt. Kinabalu.

Gard. Bull. Sing. 26 (2) : 211.

Racemobambos tessellata is described.

1973. Studies in the family Thelypteridaceae. The genus *Pneumatopteris* Nakai.

Blumea 21 : 293-325.

Dealing with 76 species, an identification key is given; many new species and combinations are made.

Jansen, W.T. & P. Bass

1973. Comparative leaf anatomy of *Kokoona* and *Lophopetalum* (Celastraceae).

Blumea 21 : 153-178, 24 figs. and 3 plts.

The leaf anatomy of *Kokoona* and *Lophopetalum* is fully described; the vascular anatomy of the distal end of the petiole is distinctively different, i.e. *Kokoona* having simple vascular system; *Lophopetalum* having complex vascular system.

Johnson, Anne

1973. A survey of the occurrence of epiterranean soil algae in Singapore Island.

Gard. Bull. **26** (2) : 289-302.

From samples of surface soil collected in 100 localities in the rural area, 80 species of soil algae were found. The algal flora was best developed in exposed subsoil and grassland.

Kalkman, C.

1973. The genus *Rosa* in Malesia.

Blumea **21** : 281-291, 2 figs.

Dealing with 7 species, two indigenous species are revised; an identification key to species is given.

1973. The Malesian species of the subfamily *Maloidea* (Rosaceae).
Blumea **21** : 413-441, 2 figs.

Generic limits in the tribe *Sorbeae* are discussed, *Stranvaesia* is included in *Photinia*; *Micromeles* is treated as generically different from *Sorbus*. Two new species are described, and 3 new combinations are made.

Stranvaesia nussia Decne. is now known as *Photinia nussia* (D. Don) Kalkm; *Sorbus granulosa* Rehder is now known as *Micromeles corymbifera* (Miq.) Kalkm.

Keng, Hsuan

1973. Annotated list of seed plants of Singapore (I).

Gard. Bull. Sing. **26** (2) : 233-237.

This first installment deals with gymnospermous plants, enumerating 32 species in 7 families (including introduced species); identification keys to genera are provided.

Keng, Hsuan & E.A. Heaslett

1973. The *Xylopia malayana* fruit : significance of its dehiscence.
Gard. Bull. Sing. **26** (2) : 223-225, one figure and one plate.

Dehiscent fruits in Annonaceae are not common, only *Anaxagorea* and some of *Xylopia* and *Alphonsea*. The fruits

of *Anaxagorea* dehisc ventrally characteristic of follicular fruits, but those of *Xylophia* dehisc dorsally similar to that of magnoliaceous fruits.

Kitagawa, N.

1969. A small collection of Hepaticae from Penang, Malaysia.
Bull. Nara Univ. Educ. 18 (2) : 27-43, 4 figs.
Dealing with 31 species in 22 genera, no novelty.
1970. *Cephaloziaopsis pearsonii* (Spr.) Schiffn. from North Borneo
with special reference to its reproductive organs.
Misc. Bryl. Lichen. 5 (5) : 65-67, one figure.
A full description is given with illustrations of its
reproductive organs.
1970. Lophziaceae of North Borneo.
J. Hatt. Bot. Lab. 33 : 203-221, 7 figs.
Dealing with 17 species in 7 genera, 5 species are
described as new to science and 8 species are new records
from Borneo.
1971. A small collection of Hepaticae from Penang, Malaysia.
Continued.
Bull. Nara Univ. Educ. 20 (2) : 7-14.
Eumerating 19 species, no novelty.
1972. Miscellaneous notes on little-known species of Hepaticae,
1-25.
J. Hatt. Bot. Lab. 36 : 444-454.
Dealing with 25 taxa with a number of new combina-
tions involved.
1973. Additions to the Gymnomitriaceae and Lophoziaaceae of
North Borneo.
Misc. Bryl. Lichen. 6 (5). 74-76, 2 figs.
Two species are recorded with one new variety.

Kitagawa, N.

1973. A new species of *Southbya* Hepaticae.

Acta Phytotax. Geobot. 25 (4-6): 127-130, 1 figure.

The new species, *Southbya grollei* is described from Thailand with the distribution to Nepal and New Guinea.

Kochummen, K.N. and T.C. Whitmore

1973. Notes on the systematy of Malayan phanerogams. —XVII—XXII.

Gard. Bull. Sing. 26 (2): 269-287.

Fifteen species are described as new to science (one *Calophyllum*, 5 *Garcinia*, 4 *Mesua*, one *Barringtonia*, one *Crudia*, and 3 *Heliciopsis*).

Kostermans, A.J.G.H.

1973. A synopsis of *Alseodaphne* Nees (Lauraceae).

Candollea 28 (1): 93-136.

Fifty species are enumerated for this Asiatic genus, 21 of which are described for the first time; new combinations are also proposed. Five species are recorded from Thailand including 2 new taxa: *A. birmanica*, Kosterm., *A. nigrescens* (Gamble) Kosterm., *A. siamensis* Kosterm., *A. wrayi* Gamble and *A. andersonii* (King & Gamble) Kosterm.

Kueh, Tiong-Kheng

1971. New plant disease records for Sarawak for 1970-1971.

Gard. Bull. 26(2): 263-268.

Unrecorded fungal diseases together with diseases caused by algae and plant parasitic nematodes are listed under their host plants.

Kurata, Shigeo

1973. *Nepenthes* from Boneo, Singapore and Sumatra.

Gard. Bull. Sing. 26(2): 227-232, 2 plates and one figure.

Recording 13 species included 2 new species.

Larsen, Kai

1973. Studies in Zingiberaceae VI.

Bot. Tidsskr. 68: 157-159, 2 figs.

Caulokaempferia saksuwaniae and *C. thailandica* are described basing on the collections from Phangnga and Loei respectively.

1973. A new species of *Orchidantha* (Lowiaceae) from Vietnam. Adansonia. Ser. 2. 13(4): 481-482, one figure.

Orchidanthe vietnamica is described from Dra Huai, N. Vietnam

Larsen, Kai and R.M. Smith

1973. Notes of *Caulokaempferia*.

Notes from Roy. Bot. Gard. Edind. 31(2): 287-295. 4 figs.

Caulokaempferia alba is described, basing on a collection from Phu Miang, Thailand. *Camptandra yunnanensis* (Gagnep.) K. Schum. is transferred to *Caulokaempferia* belonging to the section *Pyrgophyllum* (Gagnep.) R.M. Smith

Leenhouts, P.W.

1973. A revision of *Crossonephelis* (Sapindaceae).

Blumea 21: 91-103.

A small genus of 8 species widely distributed from Africa through Malesia to Indo-China. One species, *C. philippinensis* (Radlk.) Leenh. is recorded from Thailand (Put 2742, Rayong, Ban Phe); an identification key to species is provided.

Markgraf, F.

1972. Flora Malesianae Praecursores LIII. Apocynaceae II. 6.

Urnularia, 7. *Willughbeia*, 8. *Kopsia*.

Blumea 20: 407-425, 2 figs.

An enumeration of the 3 genera of apocynaceous plants is given. *Urnularia* contains 7 species including one new species, with one species from Thailand *U. rufescens*

(Hook. f.) Stapf ex Sp. Moore. *Willughbeia* has 10 species and one variety, with one species from Thailand (*W. dulcis* Ridl.). Six species of *Kopsia* are recorded including 2 new species, one from the Malay Peninsula and one from Borneo with 3 species from Thailand: *K. pauciflora* Hook. f., *K. fruticosa* (Ker) A. DC. and *K. larutensis* King & Gamble. (Kerr 18378, Tap Put).

Martin, Marie A.

1973. Notes on the vegetation of the Cardamom mountain, Cambodia.

Gard. Bull. Sing. 26(2) : 213-222, 2 maps.

The preliminary floristic and phytogeographic account of the area being given.

Meijden, R. van der

1973. Twenty-four new names in *Xanthophyllum* (Polygalaceae). Bot. J. Linn. Soc. 67 : 117-120.

One new subgenus, 17 new species, one new subspecies and two new varieties are described; new status of 3 taxa are proposed to Malesian plants.

Mukherjee, N.

1972. Six new taxa of Flacourtiaceae from India and Burma. J. Bombay, Nat. Hist. Soc. 69 : 390-394, one figure.

Homalium ciliatum, *Scolopia burmanica*, *Casearia sikkimensis*, *Casearia rubescens* Dalz. var. *gamblei*, *Scolopia crenata* (Wight) Clos var. *brevifolia*, and *Hydnocarpus kurzii* (King) Warb. ssp. *australis* Sleum. forma *latifolia* are described.

Muller, Jan

1973. Pollen morphology of the genus *Crossonephelis* (Sapindaceae). Blumea 21 : 105-117, 5 pls.

The pollen morphology of all 7 species in the genus was studied; the genus belongs to the section Lepisantheae with a closer relationship to *Plocodiscus*.

Murata, Gen

1973. New or interesting plants from Southeast Asia 1.

Acta Phytotax. Geobot. 25(4-6): 97-106, 2 figs.

Recording 5 taxa, one is new to science: *Hydrocotyle chiangdaoensis*; the taxon *Trachydium cambodgianum* (H. Boiss.) Hiroe is treated as a synonym of *Pimpinella diversifolia* DC.

Nayar, M.P.

1973. A review of the genus *Creaghiella* Stapf (Melastomaceae) Gard. Bull. 26(2): 259-261.

Three species of a small melastomaceous genus confined to the Malaysian Archipelago are enumerated, including one new species from Sabah.

Philipson, W.R.

1973. *Anakasia*, a new genus of Araliaceae from West New Guinea. Blumea 21: 87-89, one figure.

A monotypic genus is created; the plant is so far found only in West New Guinea.

1973. A revision of *Harmsioplanax* (Araliaceae). Blumea 21: 81-86.

Three species are dealt with including one new taxon; the genus confines to the Malesian Archipelago.

Rao, A.N. and Lee Wai Chin

1973. Pollen viability and germination in some orchid hybrids. Gard. Bull. Sing. 26(2): 245-257, 35 figs.

Nine orchid hybrids are studied for their pollen viability and germination together with the morphology of their pollinia.

Santisuk, Thawatchai

1973. Notes on Asiatic Bignoniaceae. Kew Bull. 28(2): 171-185.

The taxonomy, nomenclature and distribution of a number of Asiatic Bignoniaceae are considered, especially

from Thailand. A new genus, *Barnettia* is created to accommodate 2 former species of *Radermachera*, i.e. *Barnettia kerrii* and *B. pagettii*, both are limestone species and endemic to Thailand.

Spathodeopsis collignonii is new record from northern Thailand.

Stereospermum grandiflorum and *S. wallichii* proving to be identical with *S. neuranthum* are thus treated as the latter's synonyms. The confusing nomenclature of *Stereospermum chelonoides* and *S. personatum* is elucidated, with a new varietal combination.

Nyctocalos shanica is established as a new record with a wider distribution in Thailand.

Sarिताea magnifica is preferred to *Arrabidaea magnifica*, an ornamental introduced into Thailand.

Seidenfaden, Gunnar

1973. An enumeration of Laotian orchids.
Bull. Mus. Nat. His. Natlle. 3 Ser. 71(Bot. 5.): 101-152,
6 figs.

The author alphabetically lists 316 species, based on earlier literature and available herbarium specimens; no novelty.

A list of recent nomenclatural changes is appended.

1973. Contributions to the Orchid Flora of Thailand V.
Bot. Tidsskr. 68: 41-95, 42 figs and 3 col. plts.

One new genus and five new species are proposed; 11 species are new records from Thailand; 2 new combinations are made.

Pecteilis sagarikii, *Oberonia kanburiensis*, *Bulophyllum unciniferum*, *B. polliculosum*, *Rhynchogyna saccata* are new taxa; *Rhynchogyna* Seidenf. & Garey is the proposed new genus.

New combinations are :— *Brachypeza laotica* Seidenf. based on *Pteroceras laotica* Seidenf., and *Sarcoglyphis pensilis* Seidenf. based on *Sarcanthus pensilis* Ridley.

The genus *Aerides* of Thailand is being revised; *Aerides mitratum* Rchb. f. is now known as *Seidenfadenia mitratum* (Rchb. f.) Garay.

Seidenfaden, Gunnar

1973. Notes on *Cirrhopetalum* Lindl.

Dansk Bot. Ark. 29 (1) : 1-260, 134 figs.

Cirrhopetalum Lindl. is treated as a synonym of *Bullophyllum* Thouars, hence 14 new combinations, 7 new specific epithets are derived.

The author has made an attempt to give a general revision of *Bullophyllum* Sect. *Cirrhopetalum* for the first time, resulting in its subdivision into 5 sub-sections totalling 148 species; identification keys to sub-sections and species are provided. The text is fully illustrated by explicit line drawings.

The reduction of *B. henryi* (Rolfe) J.J. under *B. andersonii* (Hk.f.) J.J.Sm. is not justified, one can detect the marked differences between them. It would be more reasonable to keep *B. andersonii*, based on the plant illustrated by Hooker f., separated from *B. henryi*, based on the plant, *Henry 11264* and *O'Brien* anno 1903; *Cirrhopetalum rivesii* Gagnep. is conspecific to *B. henryi*, under which it should be reduced.

Shah, G.L. and D.V. Yogi

1973. Nomenclatural changes in some Bombay plants—IV.

J. Bombay Nat. Hist. Soc. 69 : (2) : 444-449.

Twenty-three taxa are listed.

Singh, V. and H. Singh

1972. A contribution to the flora of Gangolihat Block in Pithoragarh District.

J. Bombay Nat. Hist. Soc. 69 (2) : 352-368.

Being the conclusion of the enumeration list of plants continued from the previous installment.

Sleumer, H.

1973. New species and noteworthy records of *Rhododendron* in Malesia (Ericaceae).
Blumea 21 : 357-376.

Ten new species are described from Borneo and New Guinea together with complementary note on the taxonomy, distribution, and hybridization of *Rhododendron* in Malesia.

Steenis, C.E.G.J. van

1972. Miscellaneous botanical notes XXII.
Blumea 20 : 433-434.

Halongia purpurea Jeanplong (Liliac.) is actually *Thysanotus chinensis* Benth.

Ophiopogon gracilipes Craib is suspected to belong to *Peliosanthes* owing to the broad leaves and connate filaments.

Samyda macrophylla Willd. (Flacourtiac.) is being reduced to *Pisonia grandis* R.Br. (Nyctaginac.).

Tagawa, M. and Kunio Iwatsuki

1972. Families and genera of the pteridophytes known from Thailand.
Mem. Fac. Sc. Kyoto Univ. Biol. 5 : 67-88.

An artificial identification key to 34 families is given; each family is provided with diagnosis.

Vedkamp, J.F.

1973. A revision of *Digitaria* Hallier (Gramineae) in Malesia. Notes on Malesian grasses VI.
Blumea 21 : 1-80.

Dealing with 27 species, 6 species are described as new to science. An identification key is provided; the distribution in Thailand is also given.

Whitmore, T.C.

1973. Frequency and habitat of tree species in the rain forest of Ulu Kelantan.
Gard. Bull. Sing 26 (2) : 195-210 one figure.

A number of 628 trees of 4 ft girth and over were enumerated on sample strips 1 chain wide in primary rain forest below 2800 ft elevation. It is likely that the species distribution is more closely correlated with the relief and soil than with geology at any altitude.