

ANNOTATED LIST OF PHYTO-TAXONOMICAL AND PHYTO-GEOGRAPHICAL  
PUBLICATIONS ON OR OF IMPORTANCE TO THE MALAYSIAN REGION.  
( c n t d f r o m p . , 180 )

Adams, J. E.: Studies in the comparative anatomy of the Cornaceae. (Journ. Elisha Mitch. Sci. Soc.; 65, 1949, 218-244).  
*Cornaceae*, probably correctly estimated as the primitive family of the traditional *Umbellales*. Literature!

Anonymous: (Both the entries sub Anonymous on p. 169 of this Bulletin were published anonymously but are referable to Hildebrand F. H.).

-----: Guide of scientists in Indonesia. Organization for Scientific Research, Merdeka selatan 11 Pav., Djakarta, Java. (Bull. No 3, Nov. 1949, 64 pp. Illustrated).  
Contains a list of scientific institutes in Indonesia with their staffs and addresses.

-----: Pacific periodicals survey. (Ditto Bull. No 4, 1950, 94 pp.)  
Attempt towards a bibliography of periodicals of all countries bordering the western and southern Pacific. Very incomplete.

-----: Postwar Scientific bibliography. (Ditto Bull. No 5, 1949, 38 pp.).

: References for pure and applied science. Items arranged to decimal system. Dutch titles all translated into English.

-----: The Australian environment. Melbourne, 1949, 183 pp.. Many illustrations, photo's and maps. 2nd Ed. 1950, by C. S. I. R. O.

Prepared on the occasion of the specialist agricultural conference, held Aug. 1949, in Australia. Concise account of climates, soils, and physical geography of Australia, development of Australian agriculture, water conservation, and irrigation, vegetation, pastures, field crops, sheep, cattle and pigs. Attractive volume with many interests.

-----: United States Department of Agriculture - Forest Service. Woody plants seed manual. U. S. Dep. Agr. Misc. Publ. 654, 1948, i-vi + 416 pp., 281 fig., 225 tab.

Allan, H. H.: Wild species-hybrids in the Phanerogams II. (Bot. Review 15, 1949, 77-105).

Valuable compilation of literature and considerations on the importance of hybridization for taxonomy, ecology, and evolution.

Anderson, Edgar: Introgressive hybridization. John Wiley & Sons Inc., New York. 109 pp.

Atchison, E.: Studies in the Leguminosae II.; Cytogeography of Acacia (Tourn.) L. (Amer. J. Bot. 35, 1948, 651-655).

-----: Studies in the Leguminosae V. Cytological observations on Crotalaria. (Journ. Elisha Mitch. Sci. Soc. 66, 1950, 70-75). Including some Malaysian species.

Australasian Herbarium News No 6, March 1950 (not April 1949).

Contains the first instalment of a biography of L. Rodway (Tasmanian Gov. Botanist), a note on the Herbarium of the Botany School, Univ. of Sydney, a list of the activities of various Australian taxonomists, and many other interesting data.

Backer, C. A., Bakhuizen van den Brink Jr, & van Steenis: Identification of the new species and combinations proposed by C. P. Thunberg in the Florula Javanica by L. Winberg and F. O. Widmark (1825). (Blumea 6, 1950, 358-362).

Of the 21 proposed new spp. by Thunberg the type specimens of 19 could be located and their names reduced; 3 new combinations are necessary.

-----: Amaranthaceae, Chenopodiaceae. (Fl. Mal. 4<sup>2</sup>(1949) 69-106).

- Bailey, L. H. and Moore, H. E. Jr: Palms uncertain and new. (Gentes Herbarium 7, 1949, 93-205).  
Contains a study on Royal Palms.
- Baker, H. G.: Dimorphism and monomorphism in the Plumbaginaceae. (Ann. Bot.; 12, 1948, 207-219).
- Bakhuizen van den Brink, R. C.: see sub Backer C. A.
- : Notes on the flora of Java VI (Blumea 6, 1950, 363-406).  
Treatments of Javan families belonging to Backer's mimeographed Dutch edition of the flora of Java; notes on *Urticaceae* (*Elatostema* 1 new sp.), *Connaraceae*, *Rutaceae* (*Fagara* 3 new sp.), *Araliaceae* (1 new comb. in *Boerlagiodendron*), *Asclepiadaceae* (*Cynanchum* 1, *Toxocarpus* 1, *Tylophora* 3, *Dischidia* 2, *Hoya* 4 new spp.; *Heynella* nov. gen. in *Marsdeniae* aff. *Stephanotis*), *Loganiaceae* (*Fagraea* 1 new sp.), *Oleaceae*, *Apocynaceae* (*Alyxia* 2 new spp., *Grisseaa* nov. gen. in the *Parsonsiaeae*, *Orobanchaceae*, *Gesneriaceae* (*Cyrtandra* 2 new spp.), *Commelinaceae*, *Flagellariaceae*, and *Smilacaceae*. Many critical notes; an index of the names.
- Bartram, E. B.: Additional Fijian mosses. (Occ. Pap. Bern.; P. Bishop Mus.; 19, 1948, 219-231).
- Baum, Hermine: Das Zustandekommen offener Angiospermen Gyndzien. (Öst. Bot. Zeitschr.; 96, 1949, 285-288).  
All ovaries are open in the original vegetation point, this disappears later leaving the style canal; study on *Reseda*.
- Beadle, N. C. W.: The vegetation and pastures of western New South Wales. Dpt. of Conservation, N. S. W. Sydney, 1948, 281 pp., 157 fig.  
Highly interesting account of the effects of grazing and subsequent erosion in connexion with rainfall and soilstructures. The outcome of many years of research and field work in semi-arid country.
- Bemmelen, R. W. van: The geology of Indonesia. Vol. 1A. General Geology. Vol. 1B. Portfolio and maps. Vol. 2. Economic Geology. The Hague.  
A very important modern compilation of Indonesian geology.
- Berger, L. G. den: Determinatietabel voor houtsoorten van Malesië tot op familie of geslacht, naar voor de loep (10x en 20x) zichtbare kenmerken. Publ. by H. Veerman & Zn, Wageningen, Neth., 1949, 82 pp.  
Important key for identifying woods of Malaysia by the late Director of the Forest Research Station at Buitenzorg, edited by Mrs Dr C. Reinders - Gouwentak, who added some intro-

: ductory and explanatory chapters, and a bibliography.

Bergman, A.: De tenzoë situatie in Tapanuli voor de 2e wereldoorlog!  
(Landbouw 22, 1950, 59-63; 4 photo's, map).  
Methods of tapping *Styrax* in N. Sumatra.

Biswas, K. : Common Fresh & Brackish Water Algal Flora of India & Burma.  
(Rec. Bot. Survey India 15, 1949, iv 1-105 pp.; 10 pl.)  
A comprehensive study including a literature and a check  
list.

\*\*\*\*\*: Common Fresh & Brackish Water Algal Flora of India & Burma.  
Catalogue of Indian *Myxophyceae* (blue-green algae), *Chlorophyceae* (green algae), *Xanthophyceae* (yellow-green algae),  
and *Bacillariophyceae* (diatoms).  
(Rec. Bot. Survey India 15, 1949, iii + 169 pp.).  
With lit. reference; dedicated to the late Miss Biswas.

Boke, N. H.: Development of the stamens and carpels in Vinca rosea L.  
(Amer. J. Bot. 36, 1949, 535-547; 32 fig.).

Braak, C.: Kenmerkende eigenschappen van het tropische klimaat. (Tijdschr. Kon. Ned. Aardrij. Gen. 67, 1950, 617-629).  
Climate of Indonesia, general. Rains, lightning etc. Lightning hits annually the *Canarium* trees at Buitenzorg without  
doing serious damage, but in *Tectona* plantations it causes  
considerable harm. English summary.

Buchholz, J. T.: Additions to the coniferous flora of New Caledonia.  
(Bull. Mus. Hist. Nat. Paris, sér. II, 21, 1949, 279-286).  
New spp. in *Araucaria*, *Acmopyle*, *Podocarpus*, and *Libocedrus*.

Burret, M.: Neue Palmen aus der Gruppe der Lepidocaryoideae II.  
(Notizbl. Bot. Gartl. Mus. Berlin-Dahlem 15, 1943, 297-319).  
New species in *Daemonorops* and *Calamus*, the majority Malaysian  
and based on Clemens's collections.

Buwalda, P.: Umbelliferae. (Fl. Mal. 4<sup>2</sup>, 1949, 113-140).

Buxbaum, F.: Vorläufer des Kakteen-Habitus bei den Phytolaccaceen.  
(Österr. Bot. Zeitschr. 96, 1949, 5-14).

Chase, A. : Pogonatherum Beauv. (Journ. Arnold Arb. 31, 1950, 130-132).

Chatterjee, D.: New records of plants from India and Burma. (Kew Bull. 1949, 563-564).  
Of Malaysian plants *Ixonanthus reticulata* Jack, *Endospermum malayanum* (B.&H.) comb. nov., and *E. peltatum* Merr. are recorded for continental Asia.

Cheesman, E. E.: Classification of the bananas III. Critical notes on

- species. (Kew Bull., 1949, 445-452).  
*M. fehi* from Fiji, *M. peekelii* from the Bismarcks.
- Classification of the bananas III. (Kew Bull., 1950, 27-31).  
Treatment of *M. lodonensis* n. sp. from Halmahera, *M. macayai* F. v. M., and *M. coccinea* Andr.
- Chevalier, A.: Répartition et exploitation des Palmiers Borassus. (Rev. Int. Bot. Appl. Agric. Col. 29, 1949, 585-592).
- \*\*\*\*\*: Le genre Holarrhena et sa distribution géographique. (Rev. Int. Bot. Appl. Agric. Col. 28, 1948, 115-120).
- Coene, R. de: Anatomie, Histologie et Histogénèse de la Capsule du Cotonnier (*Gossypium hirsutum* L.). (Trav. Biol. Inst. J. B. Carnoy, Louvain, 1950, 137-150).
- Collier, W. A. & van der Pijl: Investigations on the antibiotic activity of the leaves of plants in Java. (Chron. Nat., 106, 1950 73-80).
- Copeland, E. B.: Pteridophyta of New Guinea, collected by the 3rd Archbold Expedition. (Philipp. J. Sci., 78, 1949, 5-40; pl. 1-6). With keys to the species; few new combinations.
- \*\*\*\*\*: A. D. E. Elmer, In memoriam. (Philipp. J. Sci., 78, 1949, 1-4).
- Cormack, R. H. G.: The development of root hairs in Angiosperms. (Bot. Rev., 15, 1949, 583-612).
- Corner, E. J. H.: The Annonaceous seed and its four integuments. (New Phytologist 48, 1949, 332-364). Exhaustive and most instructive treatment of Annonaceous embryology.
- Cowen, D. V.: Flowering trees and shrubs in India. (Thacker & Co, Ltd). 71 coloured plates and black and white sketches. Popular.
- Cozzo, D.: El bosque de Bahia Aguirre en Tierra del Fuego (Argentina). (Rev. Argentina de Agronomia 16<sup>4</sup>, 1949, 193-198). Data on *Nothofagus*.
- Cretzschmar, P.: Pflanzengeographische und nomenclatorische Mitteilungen über Asiatische und Australische Pflanzenarten I. (J. Jap. Bot., Tokyo 17, 1941, 406-409). A map of the distribution of *Matonia pectinata*; *Adactylus brunonis* (Griff.) Cretz. nov. comb. (= *Apostasia brunonis*) and *Adactylus ellipticus* (J. J. Sm.) Cretz.
- Cummins, G. B.: The genus Scopella of the Uredinales. (Bull. Torrey

Bot. Club 77, 1950, 204-213).

13 spp. are distinguished, incl. *S. payense* (Racib.) Cumm.  
a new combination from Java.

Curtis, Ch. H.: Orchids. Their description and cultivation. (Putnam & Cy, Ltd, London, 1950, 288 pp.; 30 col. plates; 48 ill.).

'Mr Curtis deals with all the beautiful Orchids of horticultural interest, and also others that are of special botanical interest.' 'Contains the most extensive Orchid bibliography yet published.' (Quotations from the Prospectus; work not seen).

Danser, B. H.: A theory of systematics. (Bibl. Biotheor. 4, pars 3, 1950, 117-180).

General considerations on systematics, after a MS. left by the author, published by Miss Andreas and Miss Schotsman. In concise form the author's views are given, including a definition and limitation of systematics, the structure of the typological system, the syngameontic system of species and varieties, the explanation of the system, and the significance of some other branches of science for systematics.

Degener, O.: Naturalist's South Pacific Expedition : Fiji. (1949).

The cruise of the "Cheng Ho" (Archbold sponsored), to Fiji.  
Illustrated narrative; some botanical interest.

DeIrmay, H.: La coaba, Swietenia macrophylla King, en Bolivia. (Carib. For. 10, 1949, 43-52; Engl. transl. 52-57).

Derx, H. G.: Beyerinckia, a new genus of nitrogen-fixing bacteria occurring in tropical soils. (Proc. Kon. Akad. Wet., 53, 1950, 140-147).

*B. indica* (Starkey & D.) Derx comb. nov. (formerly in *Azotobacter*).

Dillemann, G.: L'examen du Pollen et la reconnaissance des Hybrides naturels. (Bull. Soc. Bot. France 97, 1950, 98-99).

Hybrids have heterogeneous pollen.

Docters van Leeuwen, W. M.: Mierenplanten en plantenmieren. (Amsterdam, 1950, 15 pp.).

Address delivered when retiring from the Chair of Tropical Botany (sponsored by the Indisch Instituut in the University of Amsterdam). Relations between ants and plants, results of prolonged personal observations.

Doyle, J.: Developmental lines in pollination mechanisms in the Conifers, (Sci. Proc. Roy. Dublin Soc. 24, (N.S.), 1945, 43-62).  
Deals with Podocarpaceae and Araucariaceae.

Egler, F. E.: The dispersal and the establishment of Red Mangrove. Rhizophora, in Florida. (Carib. For. 9, 1948, 299-320).  
Illustrated and with a Spanish translation. Confirms the observations made in Malaysia and adds some new data.

Erdtman, G.: Palynology. Aspects and prospects. (Svensk Bot. Tidsk. 42, 1948, 467-483).

General outline of pollen research in various parts of the world; Some remarks of interest to Malaysia.

Fagerlind, F.: Perisperm oder Endosperm bei Coffea? (Svensk Bot. Tidsk. 33, 1939, 303-309).

\*\*\*\*\*: Vier neue im botanischen Garten von Buitenzorg kultivierte Pandanus-Arten. (Svensk Bot. Tidsk. 34, 1940, 101-116); *P. columnaeformis*, *P. pleiocephalus*, *P. multifurcatus*, *P. spinistigmaticus*.

\*\*\*\*\*: Blüte und Blütenstand der Gattung Balanophora. (Bot. Not. 4, 1945, 330-350).

\*\*\*\*\*: Strobilus und Blüte von Gnetum und die Möglichkeit aus ihrer Struktur die Blütenbau der Angiospermen zu denken. (Ark. f. Bot. 33, 1946, 1-57).

\*\*\*\*\*: Gynoeciummorphologische und embryologische Studien in der Familie Olacaceae. (Bot. Not. 3, 1947, 207-230).

Fassett N. C.: Herbarium technique. (Rhodora 51, 1949, 49-50).

Ferguson, J. H. A.: Eucalyptus deglupta Bl. (Tectona 40, 1950, 51-61).

Fernald, M. L.: Charles Alfred Weatherby, botanist and helper of botanists (Rhodora 51, 1949, 169-179; portr.).  
Obituary of an eminent student of Pteridophytes.

Gagnepain, F.: Meliosma (Sabiacée): sa fleur. (Bull. Soc. Bot. France 97, 1950, 89-90).

Gallom, C. le: Pierre Alorge. Un savant bryologique et algologue. (Nat. Canada 76, 1949, 229-241; portr.).  
Obituary.

Gates, A. R.: Genetics and taxonomy of the cultivated Brassicas and their wild relatives. (Bull. Torrey Bot. Club 77, 1950, 19-28).

Gäumann, E.: Die Pilze (Basel, 1949, 384 pp.).

Gibson-Hill, C. A.: The early history of Christmas Island in the Indian Ocean. (J. Mal. Br. Roy. As. Soc. 22, 1949, 67-93).  
Bibliography.

=====: Papers on the fauna of the Cocos-Keeling Islands. ( Bull. Raffles Mus., Singapore 22, 1950). Contains sketches of vegetation, maps and bibliography.

Good, R.: Madagascar and New Caledonia. A problem in plant geography. (Blumea 6, 1950, 470-479).

Guillaumin, A.: Plantae Neocaledonicae a C. Skottsberg a. 1949 lectae. 96e Contribution à la flore de la Nouvelle-Calédonie. (Acta Horti Gotoburg. 18, 1950, 247).

Skottsberg's collection, made on occasion of the 7th Pan Pacific Science Congress at Nouméa (1949) named and listed.

=====: Compendium de la Flore Phanérogamique des Nouvelles Hybrides. (Ann. Mus. Col. Marseille 5-6, 1947-1948, 5-58). Annotated check list.

Hawkes, A. D.: Notes on Grammatophyllum Bl. (Phytologist 3, 1950, 257-259).

Descriptions of *G. measuresianum* Weather and *G. scriptum* (L.) Bl.

Heisser Jr, Ch. B.: Natural hybridization with particular reference to introgression. (Bot. Rev. 15, 1949, 645-687).

Henderson, M. R.: Malayan wild flowers. (Mal. Nature Journal 4, 1949, Nos 3/4, pp. 1-181; 169 fig.).

The first part (*Polypetaleae*) of a useful book (popular) on the smaller plants of Malaya to be used in addition to that on arboreal species (by Corner, Wayside Trees). It contains keys to families, genera, and species.

Heyne, K.: De nuttige planten van Indonesië. A revised and enlarged reprint of De nuttige planten van Nederlandsch-Indië, which has been brought up to date as regards spelling and style.

Hildebrand, F. H.: see sub Anonymous.

=====: Serie daftar nama pohon-pohonan jang dikumpulkan di-Sumatera Barat. (Tree-names of the West Coast of Sumatra). (Balai Penjelidikan Kehutanan, Forest Res. Sta. Bogor, Java No 26, 1950, 60 pp.; mimeograph).

=====: Lijst van boomsoorten verzameld in Benkulen. (Rapp. Boscha-bouwproefsta. No 22, 1949; 47 pp.; mimeograph).

List of tree-species collected in Benkulen. Before the war (1942) lists of the forest trees of Manado, Bali & Lombok, Timor, Celebes (1940), Moluccas, New Guinea, Sampit, Atchin, parts of E. Borneo and W. Borneo (1941), were published. Now the issue of the lists of the tree-specimens present at Bo-

gor (Buitenzorg) in the Forest Research Station, is continued.

\*\*\*\*\*: Aanvulling op de boomnamenlijst van Kapuas-Barito (Zuid-Borneo). Issued Dec. 1949.

Supplement to the list of tree names of Kapuas-Barito.

\*\*\*\*\*: Aanvulling op de boomnamenlijst van Banjermasin en Hulu Sungai (ZO Borneo). Issued Dec. 1949.

Supplement to the list of tree names of Banjermasin and Hulu Sungai (SE Borneo).

\*\*\*\*\*: Ditto; trees collected in Tapanuli. (*Ibid. Rep.* No 29, 1950, 43 pp.; mimeograph).

\*\*\*\*\*: Ditto; trees collected in Atjeh-Simalur. (*Ibid. Rep.* No 32, 1950, 70 pp.; mimeograph).

\*\*\*\*\*: Ditto; collected in Java and Madura. (*Ibid. Rep.* No 35, 1950, 171 pp.; mimeograph).

Hoek, M.: Herinneringen aan het wildreservaat Udjung Kulon. (*Tectona* 40, 1950, 127-134; 4 photo's, 1 map).

Data on the nature reserve Udjung Kulon, SW Java, with description of the system of guarding it, before the war.

Hoof, H. A. van: A new species of Colletotrichum (Fungi imperfecti). (*Bull. Bot. Gard. Rtg III*, 18, 1950, 473-478; 3 fig.).

Description of *C. derridis* Van Hoof n. sp. on *Derris elliptica* Bth from Java; also reported from Celebes.

Hora, S. L.: Satpura Hypothesis of the distribution of the Malayan Fauna and Flora to Peninsular India. (*Prod. Nat. Inst. Sci. India* 15, 1949, 304-314).

Dating the period of migration of the so-called Malayan element into the fauna of Peninsular India.

Hosakawa, T.: Studies in the life-form of vascular epiphytes and the spectrum of their life-forms. (*Journ. Jap. Bot.* 24, 1949, Jub. Volume Makino, p. 41-45).

: Ecology and morphology of (tropical) epiphytes.

Howard, R. A.: Atkinsia gen. nov., Thespesia, and related West Indian genera of the Malvaceae. (*Bull. Torrey Bot. Club* 76, 1949, 89-100).

Howes, F. N.: Vegetable gums and resins. (*Chron. Bot. Comp.* 1949, 188 pp.; 39 ill.).

\*\*\*\*\*: The Chinese tallow (*Sapium sebiferum Roxb.*) a source of drying oil. (*Kew Bull.* 1949, 573-580).

Hubbard, C. E.: A new species of Poa from Papua. ( Kew Bull. 1949, 474).  
*Poa crutwellii* Hubb. nov. sp.

Janchen, E.: Versuch einer zwangslässigen Kennzeichnung und Einteilung der Früchte. ( Oesterr. Bot. Zeitschr. 96, 1949, 480-485).

Janssonius, H. H.: The variability in the wood-anatomy in large and small genera. ( Blumea 6, 1950, 462-464).  
Wood characters in species of large genera are generally very variable.

\*\*\*\*\*: The vessels in the wood of Javan mangrove trees. ( Blumea 6, 1950, 465-469).  
There is a remarkable increase in all mangrove trees in the number and the total area of the vessels in the wood as compared with allied species or genera not occurring on saline soils suggesting a larger transpiration.

\*\*\*\*\*: Wood-anatomy and relationship. Taxonomic notes in connection with the key to the Javanese woods. ( Blumea 6, 1950, 408-461).  
Notes on relationship in a wood-anatomical sense derived from a study of a German written key to the species treated in the Mikrographie des Holzes. (1940). Though the key is based on artificial characters, the relationships are derived from it, affecting many families. Added is an Index to the names.

Kalshoven, L. G. E.: De plagen van de cultuurgewassen in Indonesië I. ( Febr. 1950).  
In collaboration with J. van der Vecht.

Kanehira, R.: A summary of our knowledge of Papuan Pandanus. ( Bot. Mag., Tokyo, Bot. Soc. Japan 54, 1940, 249-260).  
An illustrated account; some new species.

\*\*\*\*\*: A new Pandanus from Sumatra. ( Journ. Jap. Bot. Tokyo 16, 1940, 101-105).  
*Pandanus pungens* nov. sp., described and pictured; a list of Sumatran Pandanus added.

\*\*\*\*\*: A contribution to our knowledge of Pandanus of the Malay Peninsula and Borneo. ( Journ. Jap. Bot. Tokyo 14, 1938, 429-438 ).  
Some new species. Rather better illustrated than the majority of the articles in this periodical.

Khan, R.: A contribution to the embryology of Jussiaea repens L. ( Journ. Indian Bot. Soc. 21, 1942, 267-282).

King, L.: The Cyclic Land-surfaces of Australia. ( Proc. Roy. Soc. Victoria N.S. 62, 1950, 79-95).  
Of interest to the geological past of Malaysia.

Kitamura, S.: Notes on Cucumis in the Far East. (Act. Phytotax. & Geobot. 14, 1950, 38-41; 1 pl.).

*C. melo* and *C. sativus* with varieties.

Kobuski, C. E.: Alfred Rehder, 1863-1949. (Journ. Arnold Arb. 31, 1950, 1-38; portr.).

Obituary.

Koernicke, M.: Insulinde. Das Holländische Kolonialreich. (56 pp., 1949, 47 pl.).

General information.

Koster, J. Th. & Philipson, W. R.: Nomenclatural changes in Spilanthes and Blainvillea, with remarks and a key to the species of Spilanthes in the Malay Archipelago. (Blumea 6, 1950, 349-354; 3 fig.).

Clears the confusion round *Verbesina pseudo-acmella* and *V. acmella* of Linnaeus, with a preliminary key to the spp. of *Spilanthes* of Malaysia.

Kostermans, A.: Bosonderzoek, Kolonisatieobject Momias-Ransiki, Nieuw Guinea. (Mimeo graph issued by Forest Res. Inst., Bogor, 2 vols, 1948).

Survey work South of Manokwari.

=====: Reisverslag Morotai 8 April - 6 Juni 1949. (Mimeo graph issued by Forest Res. Inst., Bogor, 27 pp.).

The report is provisional, a definite report is to follow. It seems that Kostermans's collections were destroyed at Makassar.

=====: Notes on New Guinea plants I-III. (Bull. Bot. Gard. Btzg III, 18, 1950, 435-448; 3 fig.).

New species described in *Inocarpus*, *Koompassia*, and *Endianandra*; various species in *Cryptocarya*, *Beilschmiedia*, and *Alseodaphne* are discussed.

Krauss, B. H.: Anatomy of the vegetative organs of the pine-apple, Ananas comosus (L.) Merr. (Bot. Gaz. 110, 1949, 333-404; fig. 77-180).

Krieger, H.: Spirogyra (Zygnemales). (Rabenhorst's Kryptogamen Flora 13, part 2, 1944, 295-499).

Monograph; also of importance to Malaysian algology.

Kuilmann, L. W.: Rice during and after the war. (Meded. Alg. Proefsta. v/d Landbouw, Bogor, No 87, 1949).

a bibliography of the literature on rice during the period 1940-1947.

- Lam, H. J.: Land, Volk, en Wetenschap in de Stille Oceaan. (Nieuw Zeeland, Fiji, Nieuw Caledonië, Hawaï). ( Natuurk. Voordr. Diligentia, Den Haag, 1950, 85-125; ill.).
- Discussion of features of the S. Pacific, mainly New Zealand resulting from a visit to the 7th Pan Pacific Science Congr.
- \*\*\*\*\*: Proeve ener Plantengeographie van Celebes. ( Tijdschr. Kon. Nederl. Aardr. Gen. 67, Sept. 1950, 566-604; 3 fig., 7 photo's). General, historical, flora and vegetation, literature; summary in English.
- Lanjouw, J.: Botanical Nomenclature and Taxonomy. ( Chron. Bot. 12, 1950, 87 pp.). Report on the symposium on nomenclature held at Utrecht, 1948.
- \*\*\*\*\*: Synopsis of proposals concerning the International Rules of Botanic Nomenclature submitted to the 7th Int. Bot. Congress at Stockholm. ( 1950, Utrecht, 255 pp.).
- Lawrence, D. B.: Self-erecting habit of seedling red mangrove. ( Rhizophora mangle L.). ( Americ. J. Bot. 36, 1949, 426-427).
- Lawrence, G. H. M.: Discussions in botanical names of plants. ( Gentes Herb. 8, 1949, 1-175).
- Li, Hui-Lin: Families and genera of Formosan Plants. ( Quarterly J. of Taiwan Mus. 2, 1949, 45-154).
- Léonard, J.: Etude botanique des copaliers du Congo Belge. ( Publ. Inst. Nat. 1<sup>e</sup> État Agron. Congo Belge INEAC 45, 1950, 1-158). Illustrated and critical account of Congolese copal producing Leguminosae; also of interest to Malaysian Caesalp.
- Leonhardt, R.: Phylogenetisch-systematische Studien I. Die Systematik der Compositen. ( Oesterr. Bot. Zeitschr. 96, 1949, 293-324).
- Lorrain, A.: Buitenzorg, Centre scientifique. ( Oléagineux 4, 1949, 28-29; 4 photo's).
- Macpherson, R. K.: Tropical fatigue. ( Univ. Queensl. Pap. Dep. Phys. 1, No 10, 1949, 131 pp.). Tropical fatigue is mostly determined by psychical factors.
- Martinoli, G.: Embrologia della Peperomia maculosa Hook. ( Nuov. Giorn. Bot. Italiano 55, 1948, 235-249).
- McMinn, H. & Maino, E.: An illustrated manual of Pacific Coast Trees. 2nd Ed. by the California Press, Berkeley 4, Ca.

Meyer Drees, E.: List of tree and shrub names from Timor. ( Rep. Forest Res. Inst., Bogor, Java, No 33, 1950, pp. 61).

-----: Enkele opmerkingen betreffende classificatie van bossen naar hun ontstaanswijze. ( Tectona 40, 1950, 135-153).

Primary and secondary types are distinguished within natural and anthropogenic forests. All 4 types are subdivided into subtypes according to destructive factors. Summary.

Metcalfe, C. R. & Chalk, L.: Anatomy of the Dicotyledons. ( 1950, 2 vols, 1532 pp.).

Based on Solereder's work, emended, extended, and translated.

Millius, G.: Enkele voorbeelden van dal- en rivervormen in Indonesië. ( Tijdschr. Kon. Ned. Aardr. Gen. 67, 1950, 105-188).

Millius reviews an issue of the Geographical Institute of the 'Topografische Dienst' at Djakarta, which contains numerous aerial photographs ( New Guinea, Celebes), illustrating the formations and shape of valleys and rivers in Indonesia.

Monod de Froideville, Ch.: Voorlopig verslag van een dienstreis naar Timor en Soemba. ( Mimeograph, ill., pp. 22, 1949).

Report of a trip to Sumba and Timor with special attention to pastoral grounds.

Moore, R. J.: Cytotaxonomic studies in Loganiaceae III. Artificial hybrids in the genus Buddleya L. ( Amer. J. Bot. 36, 1949, 511-516).

*B. asiatica* is completely self-sterile.

Mukherji, S.: A monograph on the genus Mangifera. ( Lloydia 12, 1949, 73-136).

41 spp. distinguished, and 4 varieties; 8 dubious spp. Contains keys and descr., literature, and a list of excl. spp. and synonyms. Two sections distinguished after Hooker. From Malaysia 34 spp. are recorded, but few specimens have been cited. Introductory notes on the history of the genus. 1 new sp. from the Philippines, 1 new name is proposed, and 2 new varieties.

Nagai, M.: Marine algae of the Kurile Islands I-II. ( Journ. Fac. Agric. Hokkaido Imp. Univ. 46, 1940-1941, 1-310; ill.).

Nakai, T.: Miscellaneous notes on Japanese plants III. ( Bull. Nat. Mus. Tokyo No 27, 1949).

Contains notes on *Phaseolus* spp. and synonymy (pp. 40-49).

-----: Ordines, familiae, tribi, genera, sectiones, species, vari - etates, formae et combinationes novae a Prof. ... adhuc ut

novis edita. ( Tokyo, 1943; portrait).

A list of all new names published by Prof. Dr T. Nakai; a special issue in his honour.

\*\*\*\*\*: Mitrapetrum sumatranus Nakai. (Iconogr. Pl. As. Or. 4<sup>2</sup>, 1941, 337-339, tab. 113).

Plate, description, and discussion.

Nelmes, E.: Notes on Cyperaceae XXII. Brass's New Guinea Carices. (Kew Bull. 1949, 378-386).

Some new spp. and varieties are included in this list; also a single specimen from Java is mentioned.

\*\*\*\*\*: Notes on Cyperaceae XXIII. The Clemens New Guinea Carices. (Kew Bull. 1949, 387-392).

The list contains 1 n. sp.

Nutman, F. J. & Sheffield F. M. L.: Studies of the clove tree. I. Sudden death disease and its epidemiology. (Ann. Appl. Biol. 19, 1949, 419-434; fig.).

Ooststroom, S. J. van: The Convolvulaceae of Malaysia VI. (Blumea 6, 1950, 337-348; 1 fig.).

Key to and descriptions of the *Argyreia*'s of the Philippines all native species are endemic; *Rivea* and *Letsomia* are included into *Argyreia*; some new combinations; 2 new spp. described.

Ouden, P. den: Coniferen, Ephedra en Gingko. (Veenman en Zonen, Wageningen, 1949, 444 pp.; ill.).

In Dutch. A beautifully illustrated and published treatment of cultivated conifers in the Netherlands. Of some interest to Conifers cultivated in Malaysia. Dozens of new infraspecific names (mostly new combinations) but possibly not a single one valid. A fine piece of work by a man of great experience and practical knowledge as a breeder that would have gained as regards nomenclature by collaboration with a systematist familiar with the problems involved.

Pendleton, R. C.: The rain shadow effect on the plant formation of Guadalcanal. (Ecoll. Monogr. 19, 1949, 75-93).

Pichon, M.: Les affinités du genre Corymbia. (Bull. Mus. Hist. Nat. Paris, sér. II, 21, 1949, 270-271; 1 fig.).

\*\*\*\*\*: Classification des Apocynacées XXVII. Détermination des graines des Plumerioïdées et des Cerberioïdées. (Bull. Mus. Hist. Nat. Paris, sér. II, 21, 1949, 266-269).

=====: Sur la notion de type botanique. (Bull. Mus. Hist. Nat. Paris 32, 1950, 109-113).  
It is unwarranted to attach more importance to the holotype than to isotypes or merotypes. Paratypes, homotypes, topotypes, hypotypes have wrong names; they have no type value at all.

=====: Classification des Apocynacées XII. Les 'Parson sia' et les 'Artia' de l'Herbier du Muséum. (Not. Syst. 14, 1950, 4-21). Reduction of i.a. *Gastranthus* F. Muell., *Helygia* Bl. to sections of *Parson sia* R. Br. *sensu* Pichon. *Parson sia panniculata* new for Java; *Artia penangiana* (King & Gamble) Pichon nov. comb., based on ??

=====: Classification des Apocynacées XXX. Position systematique du genre Dyera. (Bull. Mus. Hist. Nat. Paris, sér. II, 1949 600-602).

=====: Classification des Apocynacées XXI. Le fruit des genres Thesvetia et Ahovai. (Bull. Mus. Hist. Nat. Paris, sér. II, 32, 1950, 291-294).

=====: Au sujet des 'nomina specifica conservanda'. (Bull. Soc. Bot. France 96, 1949, 216-218, 229-230).  
Pichon accepts the principle under certain conditions. The principle was rejected, however, by a large majority at the Stockholm Congress.

Polunin, N.: Specific and trivial decapitalization. (Bull. Torrey Bot. Club 77, 1950, 214-221).  
P. concludes that there is overwhelming argument to decapitalize.

Puri, V.: Studies in floral anatomy: IV. Vascular anatomy of the flower of certain species of Passifloraceae. (Amer. J. Bot. 34, 1947, 562-563).

=====: Studies in floral anatomy: II. Floral anatomy of the Moringaceae with special reference to the gynoecium constitution. (Nat. Inst. Sci. India 8, 1942, 71-88).

=====: Engelhardtia in pleistocene of Kashmir. (Indian For. 72, 1946, 572-576).

=====: The life history of Moringa oleifera LAMK. (Journ. Ind. Bot. Soc. 20, 1941, 262-284).  
Cytological.

===== and Singh, B.: Studies in the family Amaranthaceae. I. The life-history of Digera arvensis FORSK. (Ind. Ac. Sci. 1, 1935, 893-908).

Quisumbing, Ei: The identity of Anota violacea and Rhynchostylis retusa  
(Philipp. Orchid Rev. 2, 1949, 9-13).  
A reprint of Philipp. J. Sci. 52, 1933.

\*\*\*\*\*: A rare jewel among Orchids (Angraecum philippinense Ames).  
(Phil. Orchid Rev. 3, 1950, 9-11).

\*\*\*\*\*: Stauropsis wenzelii (Ames) Ames & Quis. (Philipp. Orch. Rev.  
3, 1950, 24-25).

\*\*\*\*\*: Vegetable poisons of the Philippines. (Philipp. Journ. For.  
5, 1949, 145-171).

Contains a list of plant poisonous to man, used as arrow  
poisons, as fish poison, or poisonous to animals generally.  
There is a list of c. 300 spp. which were proved to have  
hydrocyanic acid.

Rai zada, M. B.: A little-known Burmese bamboo. (Ind. For. 74, 1948, 7-  
10, 1 pl.).

Description and plate of *Sinocalamus copelandi* (Gamble) Rai zada,  
*comb. nov.*

Rehder, A.: Bibliography of cultivated trees and shrubs hardy in the  
cooler temperature regions of the northern hemisphere. (Arnold Arboretum, 1949, i-xl, + 825 pp.).

Reichert, J.: O. Warburg. (Palestine Journ. Bot., Rehovot Ser. 2, 1938,  
1-16).

Rickett, H. W., Gram, K. c.s.: The conservation of species names. (Bot.  
Not. 2, 1950, 320-347).

Robyns, W.: Flore des spermatophytes du Parc National Albert. (vols 1-2,  
1947-1948; cf. Kew Bull. No 1, 1950, 32).

Rosevaere, G. M.: The grasslands of Latin America. (Bull. Imp. Bur. Pas-  
tures & Field Crops 36, 1948, 1-291; 15 fig., 9 pl.).

Ruinen, J.: Kebun Raya Indonesia. (Bogor, June 9, 1950).  
A leaflet (map and brief descriptive note) issued on occas-  
ion of the visit of President Sukarno, Premier Pandit Nehru,  
and Minister Moh. Hatta to the Bogor Gardens, June 9, 1950.

Santapau, H.: Notes on the Solanaceae of Bombay. (Journ. Bombay Nat.  
Hist. Soc. 47, 1948, 652-662).

\*\*\*\*\*: Notes on the Scrophulariaceae of Bombay. (Journ. Bombay Nat.  
Hist. Soc. 49, 1950, 25-49).  
Keys, synonymy, and notes, based on Pennell's work on West  
Himalayan Scrophulariaceae (1943).

- Sato, Masami: Florula galangensis. (Journ. Jap. Bot. 24, 1949, Jub. vol Makino, 46-52; 2 figs., 1 map).  
List of a collection made in Galang Island, near Singapore, Jan.-April 1946. 72 spp. of Spermatophytes, 7 Pteridophytes, and some Cryptogams are included; no new species, 2 figs of *Nepenthes*.
- Schultes, R. E.: Studies in the genus Hevea III. (Bot. Leafl. Harvard Univ. 14, 1950, 79 sec.).  
The proper and valid name of the rubber tree is *Hevea brasiliensis* (Willd. ex Adr. de Juss.) Muell. Arg.
- Shaw, H. K. Airy: Additions to the Flora of Borneo and other Malay Islands. (Kew Bull. 1, 1950, 137-138).
- \*\*\*\*\*: New or noteworthy species of Gonostylus and allied genera. (Kew Bull. 1950, 138-147).  
Including new spp. of *Gonostylus*, *Amyxa*, and a new genus *Aetoxylon*, based on *G. sympetala*.
- Skuja, H.: Zur Süßwasseralgenflora Burma's. (Nova Acta Reg. Soc. Sci. Uppsala ser. IV, 14, no 5, 1949, 1-88; taf. 1-37).  
Deals with material from Rangoon.
- Sirks, M. J.: De variabiliteit van het soortsbegrip. (Biol. Jaarboek 16, 1949, 176-193).  
'the old, static character of the species concept, which is, actually, indispensable for the systematist, proved to be a fiction'.
- Smith, J. J.: Icones Orchidacearum malayensium II. (Bull. Bot. Gard. Buitenzorg, sér. III, suppl. vol. III, part 3, 1949, t. 151-176; index).  
Final instalment of the figures of Malaysian Orchids.
- Smith, W. W.: Primula sumatrana Merr. (Trans. & Proc. Bot. Soc. Edinburgh 35, 2, 1950, 181-182).
- Sperling, I.: Beiträge zur Länderkunde von Niederländisch-Neuguinea. (Frankfurter Geogr. Hefte 10, 1936, 1-164; maps).  
Vegetation pp. 48-56.
- Steenis, C. G. J. van: Pierre Joseph Eyma. In Memoriam. (Bull. Bot. Gard. Btzg III, 18, 1950, 403-406; portr.).  
Short biography of the late Dr Eyma, Botanist in the Herbarium, Buitenzorg, whose death occurred through starvation in a Japanese camp at Palembang, July 25, 1945.
- \*\*\*\*\*: Miscellaneous botanical notes III. (Bull. Bot. Gard. Btzg III, 18, 1950, 457-461).  
Notes on *Vavaea*, *Aphaenandra*, *Scrotum cussi*, *Acer niveum*,

*Phyllanthera*, *Paracryphia*, and reduction of *Busseuillia* Less.,  
a forgotten genus in *Eriocaulon*.

\*\*\*\*\*: General considerations. (Fl. Mal. 4<sup>2</sup>, 1949, xli-lxix, fig. 32  
- 49).

Continued from Fl. Mal. vol. 4, first part, now concluded.

\*\*\*\*\*: The Malaysian species of Biophytum (Cxalidaceae). (Bull. Bot. Gard. Btzg III, 18, 1950, 449-455; 2 figs).  
A new subdivision of the genus is proposed; 6 spp. are recognized.

\*\*\*\*\*: Ceratophyllaceae, Hydrocaryaceae, Moringaceae, Saururaceae,  
Styracaceae, Juncaginaceae, Trigoniaceae, Cochlospermaceae,  
Zygophyllaceae, Podostemaceae, Plumbaginaceae. (Fl. Mal. 4<sup>2</sup>,  
1949, 41-68, 107-112; ill.).

\*\*\*\*\*: van Steenis-Kruseman, M.J., & Ooststroom, S.J. van: Contributions to the history of Botany and Exploration in Malaysia 1-6. (Bull. Bot. Gard. Btzg III, 18, 1950, 463-472).

Notes on Kollmann's collection of Javan plants, Keulemans's collection from Ilha do Principe, W. Africa; Blanco's from the Philippines, a 'Stathouder' collection from Ceylon at Paris, further a biographical note on Zi(p)pelius, and a denial that Zollinger collected in the Krakatoa Islands.

\*\*\*\*\*: in collaboration with G. den Hoed, S. Bloembergen & P.J. Eyma Flora voor de Scholen in Indonesië. (Noordhoff-Kolff, Gron./Batavia, 1949, 407 pp.; 46 fig.).

In Dutch. Keys and descriptions of c. 450 spp. with annotations and vernacular names; a great part of the species selected consist of weeds and cultivated plants; the descriptive part is preceded by some general chapters; the book is dedicated to Dr C. A. Backer). It is intended for educational purposes, and can be used in all parts of Malaysia.

Steiner, M.L.: A study of the genus Aerides in the Philippines. (Phil. Orchid Rev. 2, 1949, 3-8).

Storey, W. B.: Chromosome numbers of some species of Passiflora occurring in Hawaii. (Pacific Sci. 4, 1950, 37-43; 4 figs).

Tagawa, M.: Occasional notes on Asiatic Pteridophytes I. (Act. Phytotaxonomica & Geobot. 14, 1950, 44-48).  
Incl. spp. of East Asia, Annam, and *Rumohra holttumii* from the Malay Peninsula.

Takeda, H.: Systematic list of economic plants in Japan. (General H.Q. Allied Powers, Nat. Res. Sect., Rep. No 121, 1949, 83 pp.).

Taylor, N.: Flight from reality. (Suell, Sloan & Pearce, N. Y., 1949, 237 pp.).

Botanical sources, history, and use of narcotic, stimulating and euphoric drugs.

Thommen, E.: Neues zur Schreibung des Namens Ginkgo. (Verh. Naturf. Ges. 60, 1949, 77-103).

New facts on this inexhaustible subject.

Titman, P. W.: Studies in the woody anatomy of the family Nyssaceae.

(Journl. Elisha Mitchell Sci. Soc. 65, 1949, 345-261).

The origin of the family appears to be polyphyletic and possibly Far Eastern. Literature.

Tsiang, Y.: The development of plant taxonomy in China during the past thirty years. (Quart. J. Taiwan Mus. III (1), March 1950, 1-13).

New spp. and records enumerated according to family.

Turrill, W. B.: Taxonomy in the seed bearing plants. (Kew Bull. 1949, 453-461).

Many details of Kew Herbarium, technicalities, also a discussion of the methods and psychology of the compleat taxonomist.

\*\*\*\*\*: Cytology and taxonomy: a taxonomical standpoint. (Proc. Linn. Soc. London 161, 1949, 112-115).

\*\*\*\*\*: British Plant life. (Collins, London, 1948, 17 + 315 pp.; 53 col. plates, 8 maps).

Tuyama, T.: Orchidaceae novae Micronesiacas II-III-IV. (Bot. Mag. Tokyo Bot. Soc. Japan 54, 1940, 261-280, 295-298).  
Some references to Malaysian Orchids.

Vaas, K. F. & Schuurman, J. J.: On the ecology and Fisheries of some Javanese freshwaters. (Med. Algem. Proefst. Landbouw 97, 1949, 1-60).

A few data on water plants included.

Vening Meinesz, F. A.: Earth's crust deformations in geosynclines.

(Proc. Kon. Ned. Akad. Wet. 53, 1950, 27-46; map of Indonesia).

Earth crust is plastic, not elastic.

Voogd, C. N. A.: Ken je die plant? (W. van Hoeve, 's Gravenhage/Bandung, 1950, 263 pp.; 157 fig.).

Small atlas of pen drawings by Sastrasapoetra, accompanied by text in Dutch, mostly common Javan weeds, coloured paper according to colour of flower described.

Vouk, V & Njegovar, M.: Svijetla Pjega na Lotosovom Listu. (Acta Bot., Inst. Bot. Univ. Zagreb. 1949, 195-206).

A special light area in the leaf of *Nelumbium* is described which functions as a 'pneumatodic organ'.

Vrtar, B.: Morfologija i plastidogeni postanak kaucukovih zrnaca kod smokve (Ficus carica) i gumijevca (Ficus elastica). (Acta Bot. Inst. Bot. Univ. Zagreb. 1949, 165-193).  
In Yugoslavian; summary in French.

Walker, E. H. & Todin, R.: Additional Phanerogams in the flora of Guam, with notes on unverified records. (Contr. U. S. Nat. Herb. 30, 1949, 449-468).

Additions, corrections, and now verified species; based on collections of ex-service men. Index.

Webb, L. J.: Guide to the medicinal and poisonous plants of Queensland. (C. S. I. R. O. Bull. No 232, 1948, 202 pp.).

Whitaker, Th. W. & Bohn G. W.: The taxonomy, genetics, production and uses of the cultivated species of Cucurbita. (Econ. Bot. 4, 1950, 52-81).

Contains a tabulated key to the 5 spp. distinguished.

White, C. T.: Ligneous plants from the Solomon Islands (and New Guinea). (Journ. Arnold Arb. 31, 1950, 81-116).

Wijk, C. L. van: Enkele aantekeningen omrent de verjonging van dijelutung (Dyera lowii Hook. f.). (Tectona 40, 1950, 167-173).

Tree of the permanently inundated swamp forests with 1½-2 m peat layer in East Borneo; planting exp. by Dyak.

Wilkinson, A. M.: Floral anatomy and morphology of Triosteum and of the Caprifoliaceae in general. (Amer. Journ. Bot. 36, 1949, 481-489; fig. 1-7).

Willis, J. C.: The birth and spread of plants. (Boissiera 8, 1949, 561 pp.).

To those familiar with 'Age and Area' and the 'Course of Evolution', this big volume offers little new though, as usual the learned author offers much that stimulates thought.

There is an endless repetition of arguments and, worse, it is too often attempted to bring proof by indirect demonstration and certain points are taken for granted too easily. Difficult to digest, chapters frequently overlapping.

Willis, Margaret: By their fruits. The life of Ferdinand von Mueller. (Halstead Press, Sydney, 187 pp.; several portr.).

A very careful account of the Baron's life and also a work of art on which the author is to be congratulated as well as

her brother, Mr J. H. Willis, botanist in the Bot. Gard. Melbourne. Indispensable for the history of Australian botany, and of outstanding general interest.

Wimmer, F. E.: Vorarbeiten zur Monographie des Campanulaceae-Lobelioide-  
ae. II. Trib. Lobelieae. (Ann. Nat. Mus. Wien 56, 1948,  
317-374).

Wit, H. C. de: The genus Crudia Schreb. (Legum.) in the Malay Archipelago South of the Philippines. (Bull. Bot. Gard. Btzg III,  
18, 1950, 407-434; 3 fig.).

Key to and descriptions of 18 spp.; recognized, 8 of which new. A new subdivision in sections and subsections of the genus is proposed.

\*\*\*\*\*: Short history of the Phytography of Malaysian vascular plants. (Fl. Mal. 4, 2, 1949, lxx-clxi; map, photographs).

\*\*\*\*\*: De K. N. V. en de botanie in Indië. (Chron. Nat. 106, 1950,  
289-313; 8 photo's).

The influence of the Koninklijke Natuurkundige Vereeniging (Royal Physical Society) in the Netherlands East Indies on botanical research in Malaysia. The study is a chapter in a commemorative volume on occasion of the centenary celebrations of the Society issued in three consecutive instalments as part of Chronica Naturae.

Yarbrough, J. A.: Arachis hypogaea. The seedling, its cotyledons, hypocotyl, and roots. (Amer. Journ. Bot. 36, 1949, 758-772; 31 fig.).

Zaneveld, J. S.: The economic marine algae of Malaysia and their applications. (Indo-Pacific Fisheries Coun. Proc., Singapore,  
1950, 107-114).