

XII. BIBLIOGRAPHY

(continued from page 2300)

The entries have been split into five categories: a) *Algae* - b) *Fungi & Lichenes* - c) *Bryophytes* - d) *Pteridophytes* - e) *Spermatophytes & General subjects*. — Books have been marked with an asterisk.

a) *Algae* :

- AGARKAR, D.S. & M.S. AGARKAR, *Contribution to the Desmids of Madhya Pradesh, India (Desmids from Vindhyan Region)*. Portugaliae Acta Biol. 12, sér.B (1972/74) 159-178, 72 fig.
List of records; no novelties.
- AGARKAR, M.S. & D.S. AGARKAR, *Zygnemataceae of Madhya Pradesh*. Phytos 11 (1972) 71-77, 30 fig.
- ARVIK, J.H. & D.L. WILLSON, *Soil algae of Eniwetok Atoll, the Marshall Islands*. Pac.Sci. 28 (1974) 189-190.
23 bluegreen and 10 green algae listed; cult. from soil.
- BALAKRISHNAN, M.S. *The genus Sphaerellopsis in India (Chloroph.)* Phytos 11 (1972) 6-9, 3 fig.
- BHARATI, S.G. & K.M. PAI, *Some desmids from Kodaikanal Lake, S. India*. Phytos 11 (1972) 27-36, 42 fig.
New records.
- * CARR, N.G. & B.A. WHITTON (ed.) *The biology of blue-green algae*. Blackwell Sci. Publ., Bot. Monogr. vol.9 (1973) x + 676 pp., many fig., phot., tab.
- CHIANG, YOUNG-MENG, *Notes on marine algae of Taiwan*. Taiwania 18 (1973) 13-17, 1 map.
21 spp. listed new for Taiwan.
- CORDERO Jr, P.A. *A noteworthy Halimeda species from eastern Samar (Chloroph.)* Kalikasan, Philip.J.Biol. 1 (1972) 167-170, 4 fig.
Halimeda cylindracea Decne.
- * DESIKACHARY, T.V. (ed.) *Taxonomy and biology of blue-green algae*. Papers submitted to 1st Int. Symp. Taxon. & Biol. Blue-green Algae held at Madras Jan. 1970. Publ. Univ. Madras (1972) 591 pp., illust.
Large number of papers; a new relating to taxonomy; a few new spp. from India. A list of Indian soil blue-greens; ecology, nitrogen fixation, blooms, pioneers, etc.

- DOTY, M.S. *Farming the Red Seaweed, Eucheuma, for Carrageenans* (Rhodoph.) *Micronesica* 9 (1973) 59-73, 6 fig., 6 tab.
- FAN, KUNG-CHÜ, *Notes on algal taxonomy. I. A review of certain new taxa of the marine algae of Taiwan Province, China.* *Act. Phytotax. Sin.* 12 (1974) 253-255.
Miscellaneous notes; no novelties.
- *FOGG, G.E. c.s. *The blue-green algae.* London & New York, Acad. Press (1973) vii + 459 pp., 1 col.pl., illust.
- FUNAHASHI, S. *Distribution of marine algae in the Japan Sea, with reference to the phytogeographical positions of Vladivostok and Noto Peninsula districts.* *J. Fac. Sci. Hokkaido Univ. ser. V, Bot.* 10 (1973) 1-31, 8 fig. & maps, 6 tab.
Species listed.
- GOPALAKRISHNAN, P. *Studied on the marine planktonic diatoms of Port Okha in the Gulf of Kutch.* *Phykos* 22 (1972) 37-49, 3 tab.
- GORDON-MILLS, E.M. & H.B.S. WOMERSLEY, *The morphology and life history of Mazoyerella gen. nov. (M. arachnoidea (Harvey) comb. nov.) - Rhodophyta, Ceramiaceae - from Southern Australia.* *Br. Phycol. J.* 9 (1974) 127-137, 14 fig.
Based on *Corynospora arachnoidea* Harvey 1859.
- HÔ, PHAM-HOANG, *Quelques algues d'eau douce de la région de Cantho.* *Niên-San II* (1969) 25-59, 32 fig.
List of records (Indo-China).
- HORTOBÁGYI, T. *Phytoplankton organisms from three reservoirs on the Jamuna River, India.* *Studia Biol. Hung.* 8 (1969) 1-80, 6 diagr., 1 tab., 36 pl.
231 spp. and var. listed; list of novelties separate.
- ITONO, H. *Three species of Delesseriaceae (Rhodophyta) from Southern Japan.* *Micronesica* 8 (1972) 51-61, 4 fig.
3 spp. descr., 1 new.
- *Notes on marine algae from Hateruma Island, Ryukyu.* *Bot. Mag. Tokyo* 86 (1973) 155-168, 35 fig.
4 new spp., 1 new comb.
- & T. TANAKA, *Balliella, a new genus of Ceramiaceae (Rhodophyta).* *Bot. Mag. Tokyo* 86 (1973) 241-252, 23 fig.
Split from *Antithamnion*; 2 spp.; new tribe *Delesseriopsis*.
- JAO, CHIN-CHIH & YAO-YIN LEE, *Materials for the Charophyta of Hupeh, China. I.* *Act. Phytotax. Sin.* 12 (1974) 349-369, 6 pl.
Keys; several new spp. In Chinese.

- JOHN, D.M. & G.W. LAWSON, *Basispora*, a new genus of the Ralfsiaceae. Br. Phycol. J. 9 (1974) 285-290, 4 fig., 1 tab. 2 spp. of New Zealand (Hapalosporidium) are transferred to this West African genus.
- JOHNSON, A. A survey of the occurrence of epiterranean soil algae in Singapore Island. Gard. Bull. Sing. 26 (1973) 289-302, 12 tab. Species listed only; many not identified to sp.
- *The soil algae of Cibodas Forest Reserve*. Reinwardtia 8 (1974) 495-498. 3 Chlorophytes and 1 Cyanophyte from soil.
- KAMAT, N.D. *Oscillatoriaceae of Mysore State*. Phycos 11 (1972) 59-63.
- KAMIJO, H. & T. WATANABE, *On the Diatoms from Lake Kahoku-gata and its inflows*. Sci. Rep. Kanazawa Univ. 18 (1973) 97-153, 1 map, 17 pl. 173 spp. enumerated; with notes.
- KANEKO, T. & T. MASAKI, *Schizoseris minima*, a new species of marine algae from Rishiri Island, Hokkaido. J. Jap. Bot. 48 (1973) 168-172, 10 fig.
- KANN, E. *Zur Systematik und Oekologie der Gattung Chamaesiphon (Cyanophyceae)*. Arch. f. Hydrobiol. Suppl. 41, Algol. Stud. 7 (1972) 117-171, 24 Abb., 15 Tab.
- KHAN, M. *On a fresh water Hildenbrandia Nardo, from India (Rhodoph.)* Hydrobiologia 44 (1974) 237-240, 6 fig. New species from Dehra Dun, NW. India.
- & R.S. RAWAT, *Studies on the algal flora of Golatappar swamp. A preliminary report*. Phycos 11 (1972) 67-70.
- LITTLER, M.M. *The distribution, abundance, and communities of deepwater Hawaiian crustose Corallinaceae (Rhodophyta, Cryptonemiales)*. Pac. Sci. 27 (1973) 281-289, 4 fig., map.
- *The structure and reproduction of Dudresnaya lubrica sp. nov. (Rhodophyta, Dumontiaceae)*. Br. Phycol. J. 9 (1974) 149-156, 20 fig. From Oahu; second species from Hawaii.
- MAY, V. *The algal genus Scenedemus in Australia (Chloroph.)* Contr. N.S.W. Nat. Herb. 4 (1973) 431-452, 2 tab. Key to 14 spp.
- MIKAMI, H. *Yamadaphycus*, a new genus of the Delesseriaceae (Rhodoph.) Phycologia 12 (1973) 139-143, 17 fig. From Japan.

- *NISIZAWA, K. (Chief ed.) *Proceedings of the 7th International Seaweed Symposium Sapporo Japan, Aug. 1971*. Univ. Tokyo Press (1972) xvi + 646 pp., fig., phot., tab.
- PATEL, R.J. & C.K. ASOK KUMAR, *Zygnemaceae of Gujarat, India*. I. *Mougeotia* C.A. Agardh (Chloroph.) Act. Bot. Indica 1 (1973) 19-34, 5 pl.
14 taxa (incl. 2 new spp.); key; descr.
- SAENGER, P. *Natural History of the Hogan Group*. 2. *Some marine algae from Hogan Island, Bass Strait, with an account of the marine zonation*. Pap. & Proc. R. Soc. Tasm. 107 (1974) 73-81, 1 fig., 1 pl.
Sociology; zonation; name list; bibliography.
- SARMA, P. *On the occurrence of the genus Dichotomosiphon Ernst in West Bengal and Dehra Dun*. Bull. Bot. Soc. Beng. 25 (1971) 53-54, 5 fig.
Monotypic: *D. tuberosus* (A.Br.) Ernst; distribution.
- SHAIKH, A.A. & B.S. VAIDYA, *Some observations on algae from Gujarat*. Phykos 11 (1972) 64-66.
- SINHA, J.P. & S. PANDEY, *A new Myxophyceae from Chotanagpur, Bihar, Cylandrospermum gloeotrichioides sp. nov.* Phykos 11 (1972) 78-79, 1 fig.
- SUBRAHMANYAM, A. *Two new species of Camptylonemopsis (Cyanoph.)* Phykos 12 (1973) 114-116, 3 fig.
- TAKAHASHI, E. *New genus Spiniferomonas of the Synuraceae (Chrysophyceae)*. Bot. Mag. Tokyo 86 (1973) 75-88, 23 fig., 1 tab.
From Japan.
- THOMASSON, K. *Notes on the plankton of some Sydney reservoirs, with descriptions of two interesting desmids*. Contr. N.S.W. Nat. Herb. 4 (1973) 384-394, 2 tab.
----- *Some planktic Staurastras from New Zealand*. 3 (Desmid.) Svensk Bot. Tidskr. 68 (1974) 33-50, 9 fig.
Commented and listed spp. (no new) from volcanic lakes in North Island.
- TRONO Jr, G.C. *Notes on some marine benthic algae in the Philippines*. Kalikasan, Philip. J. Biol. 1 (1972) 126-147, 22 fig.
Taxonomic study of 27 spp. in 16 families, most for the first time reported from the Philippines.
----- *The marine benthic algae of Siasi Island and vicinity*. 1. *Introduction and Chlorophyta*. Kalikasan, Philip. J. Biol. 1 (1972) 207-228.

TSUDA, R.T. *Marine benthic algae of Guam. I. Phaeophyta. Micronesica* 8 (1972) 87-107, 1 map.

Keys to orders, families, genera, species.

----- & H.T.KAMI, *Algal succession on artificial reefs in a marine lagoon environment in Guam. J. Phycol.* 9 (1973) 260-264, 6 fig., 1 tab.

VELASQUEZ, G.T., D.F.CORNEJO, A.E.SANTIAGO & L.BAENS-ARCEGA, *Algal communities of exposed and protected marine waters of Batangas and Bataan. Philip.J.Sc.* 100 (1971) 1-40, 14 pl.

Keys and short descriptions.

WATANABE, M. *Freshwater algae from Lake Akan, Hokkaido (2). J. Jap. Bot.* 49 (1974) 215-224, 3 fig.

19 spp. listed; no novelties.

WOMERSLEY, H.B.S. *Further studies on Australian Kallymeniaceae (Rhodophyta). Trans. R. Soc. S. Austr.* 97 (1973) 253-256, 7 fig.

Key to genera and species.

WOOD, R.D. *Characeae of Australia. Nova Hedwigia* 22 (1972) ii + 120 pp., 3 fig., 17 pl.

5 genera, 29 spp., 4 var. nov., 7 var. comb. nov.; key; descr.; distr.

WREEDE, R.E. DE & E.C. JONES, *New records of Sargassum hawaiiensis Doty and Newhouse (Sargassaceae, Phaeophyta), a deep water species. Phycologia* 12 (1973) 59-62, 2 fig.

YOSHIDA, T. *Sur un genre nouveau, Tokidaea (Céramiacées, Rhodophytes), du nord du Japon. Bull. Mus. Nat. Hist. Nat. Paris III Bot.* 9 (1973) 61-70, 10 fig.

Based on *Antithamnion corticatum*.

----- *On the systematic position of Hemineura schmitziana De Toni et Okamura, a member of the Delesseriaceae, Rhodophyta. Bot. Mag. Tokyo* 87 (1974) 11-16, 8 fig.

From Japan.

b) Fungi & Lichenes :

AA, H.A. VAN DER, *Studies in Phyllosticta. I (Fungi) Studies in Mycology no. 5* (1973) 1-110, 12 fig., 1 tab.

Key to 46 spp., 4 new spp., 5 nom. nov., 12 new comb.

* AINSWORTH, G.C., F.K. SPARROW & A.S. SUSSMAN (ed.) *The Fungi. An advanced treatise. Vol. IVA. A taxonomic review with keys: Ascomycetes and Fungi imperfecti.* Acad. Press, New York/London (1973) xviii + 621 pp., many fig. and pl.

- AWAO, T. & K. MITSUGI, *Notes on thermophilic fungi in Japan. I.* Trans. Mycol. Soc. Japan 14 (1973) 145-160, 6 fig., 5 tab.
- & S. I. OTSUKA, *Notes on thermophilic fungi in Japan. III.* Trans. Mycol. Soc. Japan 15 (1974) 7-22, 6 pl., 4 tab.
- & S. I. UDAGAWA, *Endophragma dimorphospora, a new Hyphomycete.* Trans. Mycol. Soc. Japan 15 (1974) 99-104, 8 fig.
- AWASTHI, D. D. *On the species of Anaptychia and Heterodermia from India and Nepal (Lichenes)* Geophytology 3 (1973) 113-116.
Key to 26 spp. of Heterodermia.
- & K. P. SINGH, *Additions to the lichen flora of India.* Geophytology 1 (1971) 97-102, 8 fig.
7 new records (some new comb., 1 new sp.).
- & ----- *A synopsis of the foliicolous lichens from the Nilgiri and Palni Hills, India.* Geophytology 3 (1973) 13-25, 30 fig.
42 spp. under 15 genera; key to genera and species.
- BAHNWEG, G. & F. K. SPARROW Jr, *Four new species of Thraustochytrium from Antarctic regions, with notes on the distribution of zoosporic fungi in the Antarctic marine ecosystems.* Amer. J. Bot. 61 (1974) 754-766, 36 fig.
- BANERJEE, N. C. *Heterothallism in Trametes lactinea Berk.* (Fungi) Bull. Bot. Soc. Beng. 24 (1970) 157-161, 2 pl., 2 tab.
- * BARNETT, H. L. & B. B. HUNTER, *Illustrated genera of imperfect Fungi.* Burgess Publ. Co., ed. 3 (1972) 241 pp., many unnumbered fig., bibliogr., index.
- BATRA, L. R. *Hemiascosporiaceae (Hemiascomycetidae: Dipodascales), a new family based on Hemiascosporium spinulosum* (Fungi) Mycologia 65 (1973) 795-802, 24 fig.
- BELL, A. & J. W. KIMBROUGH, *Coprotus trichosurus sp. nov. from New Zealand* (Fungi) Trans. Br. Mycol. Soc. 61 (1973) 190-193, 2 fig.
- BENJAMIN, R. K. *Sympodomyces, a new genus of Laboulbeniales from New Guinea* (Fungi) Aliso 8 (1973) 1-6, 8 fig.
- BLACKMAN, A. J., G. C. BRATT & J. A. CASHIN, *Distribution and chemistry of Heterodea muelleri (Hampe) Nyl. (Lich.)* The Bryologist 76 (1973) 410-413, 1 fig.
Distribution in Australia and Tasmania.
- CHIDAMBARAM, P., S. B. MATHUR & P. NEERGAARD, *Identification of seed-borne Drechslera (Helminthosporium) species* (Fungi) Friesia 10 (1973) 165-207, 26 fig., 3 tab., 26 pl.

- CHOWDHURY, K.N. ROY, *Three unrecorded corticolous lichens from India*. Curr.Sci. 42 (1973) 758-759, 3 fig.
None new.
- CORNER, E.J.H. *Boletus and Phylloporus in Malaysia: further notes and descriptions* (Fungi) Gard.Bull.Sing. 27 (1974) 1-16, 1 fig.
New taxa from Java and Sarawak and records of many others, collected by the author in Aug. 1972, after the start of rains following a very dry spring.
- DENNIS, R.W.G. *Xylariaceae from Papua and New Guinea* (Fungi) Bull.Soc.Linn.Lyon, spec.no. 43 (1974) 126-138.
Recent coll.; 15 spp. listed with syn.; 1 new comb.
- *DODGE, C.W. *Lichen Flora of the Antarctic continent and adjacent islands*. Phoenix Publ., Canaan, New Hampshire 03741, USA (1973) xxii + 399 pp.
A large account; with descriptions and keys.
- DOI, Y. *Revision of the Hypocreales with cultural observations*. V. *Podostroma giganteum* Imai, *P. cornu-damae* (Pat.) Boedijn and *Hypocrea pseudogelatinosa* sp.nov. (Fungi) Rept.Tottori Mycol.Inst.Japan 10 (1973) 421-427, 3 fig.
- *Revision of the Hypocreales with cultural observations*. VI. *Enumeration of the species of Hypocrea and Nectria collected in the Ryukyu Islands (1)* (Fungi) Mem.Nat. Sci.Mus.Tokyo no. 6 (1973) 65-75, 6 fig.
10 spp. listed (2 new).
- *Hypocrea rufa* (Pers. ex Fr.) Fr., *Hypomyces aurantius* (Pers. per S.F.Gray) Tul., and their allies in Japan (Fungi) Jap.J.Bot. 20 (1974) 403-412, 4 fig.
4 spp. from Japan analyzed.
- DUMONT, K.P. *Sclerotiniaceae V. On some tropical Lambertella species* (Fungi) Mycologia 66 (1974) 341-346.
A few new comb.; incl. specimens from India and Borneo.
- ELLIS, J.P. *Some thalloid Meliolas* (Fungi) Trans.Br.Mycol.Soc. 63 (1974) 93-98, 3 fig., 2 pl.
2 new spp. from Queensland on Araucaria and Agathis.
- FILSON, R.B. *Studies in Antarctic lichens. I. Notes on Caloplaca citrina* (Hoffm.) Th.Fr. and *Physcia caesia* (Hoffm.) Hampe. Muelleria 3 (1974) 1-8, 3 pl.
Reductions of some names.
- *Ditto. II. Lichens from the Windmill Islands, Wilkes Land*. Muelleria 3 (1974) 9-36, 10 fig. & map.
110°30' E, 66°20' S; key to 25 spp. (2 new).

- FINERAN, B.A. & C.W. DODGE, *Lichens from the Southern Alps, New Zealand. II. Records from the Mt. Cook District.* Pac. Sci. 27 (1973) 274-280, 1 tab.
- GOSWAMI, R.N. & K.L. SINGH, *Uredinales of North-East India* (Fungi) Indian Phytopathology 26 (1973) 310-314.
15 spp. listed (none new), some new to India.
- GUPTA, P.C. *Parasitic Fungi on medicinal plants from India. II. Some pycnidial and perithecial forms.* Mycopath. & Mycol. Appl. 54 (1974) 127-130, 40 fig.
13 spp. listed, 4 new.
- HAGIWARA, H. *The Acrasiales in Japan. II* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 591-595, 6 fig., 2 tab.
New sp. of *Polysphondylium*.
- *Enumeration of the Dictyosteliaceae* (Fungi) in Y. Kobayashi, Mycol. Reports no. 17: Bull. Nat. Sc. Mus. Tokyo 16 (1973) 493-496, 1 fig., 1 pl.
3 spp. from New Guinea.
- HALE JR, M.E. *New combinations in the lichen genus Parmotrema Massalongo.* Phytologia 28 (1974) 334-339.
- *Delimitation of the lichen genus Hypotrachyna* (Vainio) Hale. Phytologia 28 (1974) 340-342.
Wholesale transfer of spp. formerly in *Parmelia* sect. *Hypotrachyna*.
- HEIM, R. & J. PERREAU, *Sur quelques lactaires de Nouvelle-Guinée. I. Description et ornementation sporale du Lactarius arachnisporus Heim et Perreau, sp. nov.* (Fungi) Rev. Mycol. 37 (1972) 117-124, 2 fig., 2 pl.
- HIRATSUKA, N. *Revision of taxonomy of the genus Uromyces in the Japanese Archipelago. Contributions to the rust-flora of Eastern Asia. X* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 1-98.
Key to 86 spp.
- & S. KANEKO, *A taxonomic revision of the species of Puccinia parasitic on the Polygonaceae in the Japanese Archipelago* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 99-140, 46 fig., 2 tab.
Key to 17 spp.
- HO, N.S.-M., B.-Y. YANG & CH. E. DEVOL, *Studies on the Mucorales isolated from Yang-Ming-Shan humus* (Fungi) Taiwania 19 (1974) 75-87, 3 tab., 3 pl.
Discussions and observations of 20 spp.
- HONGO, T. *Materials for the fungus flora of Japan* (12). Trans. Mycol. Soc. Japan 14 (1973) 165-168, 2 fig.

- *On some interesting larger fungi from New Guinea. Mycological reports from New Guinea and the Solomon Islands* 15. Rept.Tottori Mycol.Inst.Japan 10 (1973) 357-364, 6 fig.
Some results of the 3rd New Guinea Exp. Nov.1971-Jan. 1972; 7 spp. from the Fago-Arauc. forest at Oksapmin, 1600 m; a new *Russula* and *Lactarius*.
- *Enumeration of the Hygrophoraceae, Boletaceae and Strobilomycetaceae (Fungi) in Y.Kobayasi, Mycol.Reports no. 21: Bull.Nat.Sc.Mus.Tokyo* 16 (1973) 537-557, 12 fig.
Records from New Guinea.
- *Two new species of Amanita from Castanopsis forests in Japan (Fungi) Bull.Soc.Linn.Lyon, spec.no. 43* (1974) 188-193, 2 fig.
- HORIE, Y. & CHUN-ICHI UDAGAWA, *Materials for the fungus flora of Japan (13)*. Trans.Mycol.Soc.Japan 14 (1973) 169-173, 7 fig.
- HOU, HSING-HSIUNG & LUNG-CHI WU, *Survey of fleshy fungi in Taiwan*. J.Chin.Soc.Hortic.Sci. 17 (1971) 1-14, fig., 32 phot.
Annotated list. In Chinese.
- HUGHES, S.J. & T.R.NAG RAJ, *New Zealand Fungi 20. Fusichalara gen.nov.* New Zeal.J.Bot. 11 (1973) 661-671, 6 fig.
3 new spp. of a new genus of Ascom.
- ISHII, H. & N.TENJIN, *A provisional list of higher fungi in Tokushima Prefecture, Japan*. Rept.Tottori Mycol.Inst. Japan 10 (1973) 715-730.
273 names listed (no novelties).
- KANNANGARA, C.G. *Stemonitis flavogenita Jahn - A myxomycete new to Ceylon (Fungi) Ceyl.J.Sc., Biol.* 4 (1962) 112-113, 1 fig.
- KAPOOR, J.N. & D.K.AGARWAL, *Indian species of Ravenelia on Abrus and Albizzia (Fungi) Indian Phytopath.* 25 (1972) 551-554, 5 fig.
Key to 2 spp.
- KARAN, D. *A new species of Sporidesmium from India (Fungi) Curr.Sci.* 42 (1973) 836-837, 1 fig.
- & J.L.MULDER, *Pseudocercospora gyrocarpi sp.nov. on Gyrocarpus in India (Fungi) Trans.Brit.Mycol.Soc.* 63 (1974) 205-207, 1 fig., 1 pl.
- KATSUKI, S. *Cercosporae of Japan and allied genera (Suppl. 2) (Fungi) Rept.Tottori Mycol.Inst.Japan* 10 (1973) 561-568, 5 fig., 1 tab. — 6 spp. (one new).

- KATUMOTO, K. *Notes on the genera Lanomyces Gäum. and Cystotheca Berk. et Curt.* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 437-446, 4 fig.
New comb. of Cystotheca from Java.
- * KERN, F. D. *A revised taxonomic account of Gymnosporangium* (Fungi) The Pennsylv. State Univ. Press (1973) ix + 134 pp., 29 fig.
Keys.
- KOBAYASHI, T. *Notes on new or little-known fungi inhabiting woody plants in Japan. IV.* Rept. Tottori Mycol. Inst. Japan 10 (1973) 405-409, 2 fig., 1 tab.
New spp. of Sphaerodotis on Livistona.
- *Ditto.* V. Trans. Mycol. Soc. Japan 14 (1973) 266-279, 4 fig., 3 tab.
A new Hypocrella and other notes.
- KOBAYASI, Y. *Enumeration of the Tremellaceous Fungi collected in New Guinea.* Bull. Nat. Sci. Mus. Tokyo 16 (1973) 639-654, 6 fig., 1 pl.
21 spp. listed (2 new).
- *Three gelly fungi collected in New Guinea.* J. Jap. Bot. 49 (1974) 225-227, 1 pl. with 3 col. phot.
Tremella and Auricularia; none new.
- & K. KONNO, *Some additional water moulds from soil* (Fungi) in Y. Kobayasi, Mycol. Reports no. 18: Bull. Nat. Sc. Mus. Tokyo 16 (1973) 497-502, 3 fig.
Records from New Guinea.
- , Y. OTANI & T. HONGO, *Some higher fungi found in New Guinea. Mycological reports from New Guinea and the Solomon Islands 14.* Rept. Tottori Mycol. Inst. Japan 10 (1973) 341-356, 10 fig.
20 spp. listed, none new.
- KRUG, J. C. & R. F. CAIN, *A preliminary treatment of the genus Podocordaria* (Fungi) Canad. J. Bot. 52 (1974) 589-605, 31 fig.
Key to 10 spp., some also in Malesia.
- KUEH, TIONG-KHENG, *New plant disease records for Sarawak for 1972.* Gard. Bull. Sing. 27 (1974) 123-129.
Fungi causing diseases listed with host plant.
- KUROKAWA, S. *Supplementary notes on the genus Anaptychia* (Lich.) J. Hattori Bot. Lab. no. 37 (1973) 563-607, 13 fig. & maps, 15 tab.
88 spp. listed, some new.

- KUZUHA, S. *Notes on Japanese Syncephalis* (Fungi) Trans. Mycol. Soc. Japan 14 (1973) 237-245, 4 fig.
Remarks on some spp., 2 new spp.
- *Two new species of aquatic Hyphomycetes* (Fungi) J. Jap. Bot. 48 (1973) 220-224, 2 fig.
- LIBERTA, A.E. *The genus Trechispora* (Basidiomycetes, Corticiaceae) (Fungi) Canad. J. Bot. 51 (1973) 1871-1892, 21 fig.
Key to 21 spp., some in Malesia.
- LIU, CHIN-HUI & BAO-YU YANG, *Studies on certain species of Taiwan Mucorales* (Fungi) Taiwan J. Bot. 18 (1973) 73-82, 1 tab., 3 pl.
10 spp.; new records for Taiwan.
- LIU PO, *A new species of rust fungi from China*. Act. Phytotax. Sin. 12 (1974) 257-258, 8 fig.
On *Bothriospermum chinensis* Bunge.
- LUTTRELL, E.S. & B.N. MUTHAPPA, *Morphology of a new species of Aulacostroma* (Hemisphaeriales) (Fungi) Mycologia 66 (1974) 563-579, 15 fig.
New spp. from India.
- MAAS GEESTERANUS, R.A. *Studies in the genera Irpex and Stecherinum* (Hydnac.) Persoonia 7 (1974) 443-581, 34 fig., pl. 40.
Large monograph.
- McNABB, R.F.R. *Taxonomic studies in the Dacrymycetaceae VIII. Dacrymyces Nees ex Fries* (Fungi) New Zeal. J. Bot. 11 (1973) 461-524, 5 fig.
Key to 31 spp. Contains all spp. from Java, a new one from New Zealand, etc.
- *Russulaceae of New Zealand. 2. Russula Pers. ex S.F. Gray* (Fungi) New Zeal. J. Bot. 11 (1973) 673-730, 36 fig.
Key to 32 new spp., mostly associated with *Nothofagus* and *Leptospermum*.
- MANOHARACHARY, C. *A note on some aquatic Phycomycetes from Hyderabad, India* (Fungi) Curr. Sci. 42 (1973) 874.
2 records.
- & P. RAMARAO, *Subbaromyces aquatica, a new Ascomycete from India* (Fungi) Hydrobiologia 44 (1974) 475-479, 1 fig., 1 pl.
- MHASKAR, D.N. & V.G. RAO, *An undescribed species of Trematosphaeria Fockel from India* (Fungi) Curr. Sci. 43 (1974) 456, 1 fig.

- MIURA, K. *Three entomophthoralean parasites of nematodes collected from Japan* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 517-522, 2 fig.
3 spp., 1 new sp. & gen. *Zygnomyces*.
- MORIMOTO, Y. *A list of species of Puccinia collected in Hiroshima Prefecture, Japan* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 313-319.
82 spp. listed.
- *Notes on rust flora of Japan (?)*. J. Jap. Bot. 49 (1974) 228-231, 6 fig.
Species listed, some new.
- MUKERJI, K. G. *The nomenclatural status and synonymy of Acremonia serpentina and Sporormia cainia* (Fungi) Trans. Mycol. Soc. Japan 14 (1973) 175-176.
A. serpentina has been accommodated in a new genus *Ostracodermidium*.
- NAG RAJ, T. R. & S. J. HUGHES, *New Zealand Fungi* 21. *Chalara* (Corda) Rabenhorst. New Zeal. J. Bot. 12 (1974) 115-129, 6 fig.
8 new spp.; key.
- NAWAWI, A. *Clavatospora filiformis* sp. nov., an aquatic Hyphomycete from Malaysia (Fungi) Trans. Br. Mycol. Soc. 61 (1973) 390-391.
- *Two new Varicosporium species* (Fungi) Trans. Br. Mycol. Soc. 63 (1974) 27-31, 3 fig.
2 new Hyphomycetes from scum and foam samples at Ulu Gombak, Malaya.
- NOMURA, Y. *An additional list of host plants of Erysiphaceae in the central Japan* (Fungi) Trans. Mycol. Soc. Japan 15 (1974) 72-74.
- OSHIO, M. *On the name Ochrolechia rosella* (Tuck.) Vers. (Lich.) Hikobia 6 (1973) 264.
Should be called *O. trochophora* (Vain.) Oshio.
- OTANI, Y. *Fungal flora of the alpine region of Mt. Wilhelm. II. New Guinea*. In Y. Kobayasi, Mycol. Reports no. 16: Bull. Nat. Sc. Mus. Tokyo 16, 1973, 477-492, 6 fig.
Novelties.
- *Ascoclavulina*, a new genus of Discomycetes from Japan (Fungi) Trans. Mycol. Soc. Japan 15 (1974) 1-6, 4 fig.
- PANDE, A. *Contributions to the Xylariaceae of Western India. III* (Fungi) Indian Phytopath. 26 (1973) 84-89, 3 fig.
5 new spp. (of several genera).

- PANWAR, K.S. & C.S. GEHLOT, *Two species of Leptosphaeria new to India* (Fungi) Curr.Sci. 42 (1973) 734.
None new.
- PATIL, A.S. & V.G. RAO, *Articulospora - A new record from India* (Fungi) Indian Phytopath. 25 (1972) 455-456, 1 fig.
- PENG, JIN-TORNG, *On taxonomy of a coremioid Pleurotus fungus found in Taiwan*. J.Chin.Soc.Hortic.Sci. 20 (1974) 117-120, 2 fig.
In Chinese. In Taiwan: *P. cystidiosus* Miller.
- PEREGRINE, W.T.H. & KASSIM BIN AHMAD, *A common edible mushroom (Agaricus sp.) in Brunei*. Brunei Mus.J. 3 (1973) 146-149, 1 pl.
- PETERSON, R.S. *Studies of Cronartium (Uredinales)* (Fungi) Rept. Tottori Mycol.Inst.Japan 10 (1973) 203-223, 4 fig.
Type coll. examined; names listed; one new comb.
- PFISTER, D.H. *The psilopezoid fungi. IV. The genus Pachyella (Pezizales)*. Canad.J.Bot. 51 (1973) 2009-2023, 5 fig.
Key to species; some new comb.; 1 new sp.
- POHLAD, B.R. & D.R. REYNOLDS, *Treubiomyces rediscovered* (Fungi) Mycologia 66 (1974) 521-524, 2 fig.
In Florida Citrus groves; originally described from Cibodas, West Java.
- RANGKUTI, D. & M.A. RIFAI, *Does Hirneola auricula-judae occur in Malesia?* (Fungi) Reinwardtia 8 (1974) 533-536.
Conclusion is 'not'; several species are possibly involved.
- RAO, N.N.R. & M.S. PAVGI, *Pleospora allii on onion from Varanasi* (Fungi) Curr.Sci. 42 (1973) 734.
- RATTAN, S.S. *Scytinostroma in India with notes on extra-limital species* (Fungi) Trans.Br.Mycol.Soc. 63 (1974) 1-12, 3 fig.
Key; no novelties.
- RIFAI, M.A. *Another pink-spored and brown-stalked species of Stachybotrys* (Fungi) Reinwardtia 8 (1974) 537-540, 1 fig.
New sp. described.
- RIKHY, M. & K.G. MUKERJI, *Studies on Indian Endogonaceae. I. Four new records* (Fungi) Trans.Mycol.Soc.Japan 15 (1974) 47-52, 3 pl.
- SAHO, H. & I. TAKAHASHI, *A check list and host index of fungi on forest trees collected at the Tokyo University forest in Hokkaido, Japan (1960-1972)*. Rept.Tottori Mycol.Inst.Japan 10 (1973) 703-714, 1 fig.

- SAONO, S., I. GANDJAR, T. BASUKI & H. KARSONO, *Mycoflora of 'ragi' and some other traditional fermented foods of Indonesia*. Ann. Bogor. 5 (1974) 187-204, fig., tab.
- SARBHOY, A. K., S. N. SINGH & D. K. AGARWAL, *An interesting member of the Pilobolaceae (Fungi)* Trans. Br. Mycol. Soc. 62 (1974) 425-427, 1 fig., 1 pl.
Isolated from dung in India.
- SHAKIL AHMAD KHAN & MUSTAFA KAMAL, *Additions to the parasitic fungi of West Pakistan. II*. Mycopath. & Mycol. Appl. 52 (1974) 13-28, 11 fig.
10 new spp. of Cercospora.
- & ----- *Ditto. III*. Mycopath. & Mycol. Appl. 52 (1974) 29-43, 10 fig.
10 spp. of Dematiaceae, some new.
- SHARMA, N. D. & G. P. AGARWAL, *Fungi causing plant diseases at Jabalpur (M.P.). XIV. Some fungi new to India*. Indian Phytopath. 26 (1973) 541-545, 5 fig.
No new species.
- SHREEMALI, J. L. & K. S. BILGRAMI, *Coniothyriopsis: a new record from India (Fungi)* Indian Phytopath. 26 (1973) 161-163, 4 fig.
1 new sp.
- * SINSWORTH, G. C., F. K. SPARROW & A. S. SUSSMAN (ed.) *The Fungi. An advanced treatise. Vol. IVB. A taxonomic review with keys: Basidiomycetes and Lower Fungi*. Acad. Press, New York/London (1973) 504 pp., illust.
Keys to genera.
- SIVANESAN, A. *Two new species of Coccostroma (Fungi)* Trans. Br. Mycol. Soc. 62 (1974) 422-424, 2 fig.
One from Australia.
- SIVASITHAMPARAM, K. *Spegazzinia parkeri sp. nov. (Fungi)* Trans. Br. Mycol. Soc. 62 (1974) 427-429, 1 fig.
Isolated from soil under wheat in West Australia.
- SWART, H. J. & D. A. GRIFFITHS, *Australian leaf-inhabiting Fungi. IV. Two Coelomycetes on Acacia pycnantha*. Trans. Br. Mycol. Soc. 62 (1974) 151-161, 3 fig., 1 tab., 12 pl.
1 new sp. described.
- & ----- *Ditto. V. Two new species of Seimatosporium on Eucalyptus*. Trans. Br. Mycol. Soc. 62 (1974) 359-366, 3 fig.
- & ----- *Ditto. VI. Cooksonomyces banksiae gen. et sp. nov.* Trans. Br. Mycol. Soc. 63 (1974) 151-155, 4 pl.
An interesting new genus and n.sp. from Banksia.

- TAI, FANG-LAN, *Two new species of the genus Puccinia* (Fungi) Act. Phytotax. Sin. 11 (1973) 343-345, 2 fig.
P. hanyuenensis Tai & *P. omeiensis* Tai from China.
- TAKADA, M. *Notes on soil-borne Ascomycetes* (Fungi) in Y. Kobayasi, Mycol. Reports no. 20: Bull. Nat. Sc. Mus. Tokyo 16 (1973) 521-535, 8 fig., 1 pl.
Records from New Guinea.
- TERUI, M. & Y. HARADA, *A new species of Puccinia from Japan* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 249-251, 2 fig.
- THAUNG, MAUNG MYA, *A new genus of rusts from Burma*. Mycologia 65 (1973) 702-704, 2 fig.
----- *Two new rusts from Burma*. Trans. Br. Mycol. Soc. 62 (1974) 218-222, 2 fig.
- THIND, K.S. *The Aphyllorphorales in India* (Fungi) Indian Phytopath. 26 (1973) 2-23.
Comments on genera; no key.
----- & S.S. RATTAN, *The Thelephoraceae of India. VI-VII* (Fungi) Indian Phytopath. 26 (1973) 485-494, 528-536, 12 + 11 fig.
10 spp. described and discussed; no new.
----- & ----- *The Thelephoraceae of India. X* (Fungi) Mycologia 65 (1973) 1250-1258, 9 fig.
3 new spp.
- THITE, A.A. & U.K. KULKARNI, *Additions to Fungi of India*. Indian Phytopath. 26 (1973) 76-78, 4 fig.
Several records; no new names.
- TOKUMASU, S. *Records of two Acremonium species, Aphanocladium meliolae, and Monocillium mucidum from Japan* (Fungi) Trans. Mycol. Soc. Japan 14 (1973) 161-164, 4 fig.
- TRIVEDI, B.S. & C.L. VERMA, *Fungal remains from Tertiary coal bed of Malaya*. J. Palyn. 5 (1969/70) 68-73, 14 fig., 16 text-fig.
9 new spp. described.
- UCHIDA, S. *A list of Uredinales collected in Kobugahara and its vicinities, Pref. Tochigi, Central Honshu, Japan* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 321-327.
82 names listed.
- UDAGAWA, SHUN-ICHI, K. FURUYA & Y. HORIE, *Notes on some ascomycetous microfungi from soil*. In Y. Kobayasi, Mycol. Reports no. 19: Bull. Nat. Sc. Mus. Tokyo 16 (1973) 503-520, 8 fig., 1 tab., 1 pl. — Records from New Guinea.

- UDAGAWA, SHUN-ICHI & Y. HORIE, *Some Eupenicillium from soils of New Guinea* (Fungi) Trans. Mycol. Soc. Japan 14 (1973) 370-387, 12 fig.
5 new species.
- & ----- *Three Chaetomium species from Thailand soil* (Fungi) Rept. Tottori Mycol. Inst. Japan 10 (1973) 429-435, 7 fig.
- & ----- *Notes on some Japanese Ascomycetes. XII.* Trans. Mycol. Soc. Japan 15 (1974) 105-112, 10 fig.
Critical notes; several new species.
- & M. TAKADA, *Miscellaneous notes on Microfungi (Mycological Reports from New Guinea and the Solomon Islands 13)*. Bull. Nat. Sc. Mus. Tokyo 16 (1973) 317-330, 1 pl.
- & ----- *Notes on some Japanese Ascomycetes. XI.* Trans. Mycol. Soc. Japan 15 (1974) 23-29, 5 fig.
1 old, 1 new species.
- ULLASA, B.A. & V.G. RAO, *Deshpandiella, a new genus of the Diaporthaceae (Ascomycetes)*. Bull. Torrey Bot. Club 100 (1973) 41-43, 4 fig.
- VAIDEHI, B.K. & P. RAMARAO, *Fungi from three varieties of rice seed*. Indian Phytopath. 25 (1972) 547-550, 1 tab.
Species listed in a table.
- VĚZDA, A. *Flechtensystematische Studien. VIII. Drei neue Arten der Gyalectaceae sensu amplo aus Neu-Guinea (Lich.)* Folia Geobot. Phytotax. Praha 8 (1973) 311-316, 1 Abb.
- VIDHYASEKARAN, P., K. RANGANATHAN & G. RANGASWAMI, *An Alternaria blight of Solanum elaeagnifolium, a pernicious weed* (Fungi) Curr. Sci. 42 (1973) 804-805, 1 fig.
New sp.
- WANG YANG, JEN-RONG & MING-JOU LAI, *A checklist of the lichens of Taiwan*. Taiwania 18 (1973) 83-104.
Syst. synopsis genera in Taiwan; alphabet. list known genera and species; bibliography.
- WESTE, G. *Phytophthora cinnamomi - The cause of severe disease in certain native communities in Victoria*. Austr. J. Bot. 22 (1974) 1-8, 2 tab.
- YEN, JO-MIN, *Etude sur les champignons parasites du sud-est Asiatique. XXI. Les Urédinées de Malaisie. II.* Bull. Trim. Soc. Mycol. Fr. 89 (1973) 325-335, 5 fig.
Study of 8 spp. of which 3 new.
- & CHIN-CHIH WANG, *Ditto. XXII. Les Oidium de Formose. II.* Rev. Mycol. 37 (1972) 125-153, 9 fig., 1 tab.
Including several new species and new names.

- YOKAYAMA, K. *A new locality of Tricholoma matsutake (S. Ito et Imai) Sing. on the border district of Manchuria and Siberia near Lake Khanka (Fungi)* Trans. Mycol. Soc. Japan 14 (1973) 144, 1 map.
- YOKOYAMA, T. & K. TUBAKI, *Some Hyphomycetes from Papua and New Guinea (Fungi)* Bull. Nat. Sci. Mus. Tokyo 16 (1973) 655-660, 5 pl.
15 spp. listed (none new).
- YOSHIMURA, I. *Notes on Gymnoderma melacarpum, comb. nov. (Lich.)* J. Jap. Bot. 48 (1973) 283-288, 2 fig.
- & S. KUROKAWA, *Nine lichens collected in the Yaeyama Islands, Ryukyu. Mem. Nat. Sci. Mus. Tokyo no. 6 (1973) 77-84, 1 fig., 2 pl.*
9 spp. (no new).
- c) Bryophytes :
- ABEYWICKRAMA, B. A. *The genera of liverworts of Ceylon.* Ceyl. J. Sc., Biol. 2 (1959) 33-81.
64 genera, with descr. and fig.; keys; species named.
- *The genera of mosses of Ceylon.* Ceyl. J. Sc., Biol. 3 (1960) 41-122.
168 genera, with descr. and fig.; keys; species named.
- ANDO, H. *Miscellanea bryologica Asiae Orientalis III.* Hikobia 6 (1973) 203-215, 4 fig.
Critical notes with new comb. and new sp.
- BHARADWAJ, D. C. *On Folioceros, a new genus of Anthocerotales (Hepat.)* Geophytology 1 (1971) 6-15, 7 fig., 1 graph.
Split from Anthoceros; new comb.; 1 new sp. from Assam.
- *On some Asian and African species of Folioceros Bharadwaj (Hepat.)* Geophytology 2 (1972) 74-89, 21 text-fig., 2 pl., 1 tab.
7 new comb. of Mal., Afr. & Asian spp.
- CHUANG, CHING-CHANG, *A moss flora of Taiwan exclusive of essentially pleurocarpous families.* J. Hattori Bot. Lab. 37 (1973) 419-509, 2 maps, 1 fig.
Key to families, genera, and species.
- DABHADE, G. T. *New records of Funaria (Entosthodon) nutans (Mitt.) Broth. from Western India (Musci)* Bull. Bot. Soc. Beng. 24 (1970) 83-85, 1 fig.
- GANGULEE, H. C. *The need of district records of Indian mosses and the moss flora of some eastern Indian districts.* Bull. Bot. Soc. Beng. 24 (1970) 5-29.
List of records.

- GROLLE, R. *The hepatics of the South Sandwich Islands and South Georgia*. Br. Antarct. Surv. Bull. no. 28 (1972) 83-95, 1 fig.
List of records; 1 new sp.
- *Nephelolejeunea* - *Eine neue Gattung der Tuyamaelloideae* (Hepat.) J. Hattori Bot. Lab. 37 (1973) 251-261, 2 Abb.
Key to genera; includes records of New Zealand hepatics.
- HADIUZZAMAN SYED, *A taxonomic study of Bryum capillare Hedw. and related species* (Musci) J. Bryol. 7 (1973) 265-326, 30 fig. & 2 maps.
Key to 11 spp., 2 new spp., 1 new comb.
- HAMLIN, B.G. *Hepaticae of New Zealand. Part III. Additions and corrections to the index of binomials*. Rec. Dominion Mus. 8 (1973) 139-152.
- *Ditto. Part IV. The reproductive structures of Jubulopsis Schust., a genus of Lepidolaenaceae* (Hepat.) Rec. Dominion Mus. 8 (1973) 153-157, 2 fig.
- HATTORI, S. *Notes on Asiatic species of the genus Frullania, Hepaticae, II-IV*. J. Hattori Bot. Lab. 37 (1973) 55-152, fig. 22-85.
- & M. KAMIMURA, *Some new or little-known Asiatic species of Frullania* (Hepat.). I. J. Hattori Bot. Lab. 37 (1973) 519-533, 11 fig.
From New Guinea.
- INOUE, H. *Metacephaloxia, a new genus of the Hepaticae*. J. Hattori Bot. Lab. 37 (1973) 287-291, 2 fig.
New genus, new sp. from Ryukyu Is.
- *The genus Fossombronia Raddi in Japan* (Hepat.) J. Hattori Bot. Lab. 37 (1973) 293-297, 2 fig.
Key to 3 spp. (1 new).
- IWATSUKI, Z. & M. MIZUTANI, *Coloured illustration of Bryophytes of Japan* (1972) — Reviewed on page 2216.
- & A. NOGUCHI, *New combinations in E. Asiatic mosses*. J. Jap. Bot. 48 (1973) 215-218.
31 new comb.
- & ----- *Index Muscorum Japonicarum*. J. Hattori Bot. Lab. 37 (1973) 299-418.
Checklist.
- KITAGAWA, N. *Miscellaneous notes on little-known species of Hepaticae, 26-50*. J. Hattori Bot. Lab. 37 (1973) 263-273.
Including Malesian records.

- *Additions to the Gymnomitriaceae and Lophoxiaceae of North Borneo.* Misc.Bryol.et Lichen. 6 (1973) 74-76, 2 fig.
- & T.KODAMA, *Enumeration of Hepaticae collected by Drs. S. Kokawa and M. Hotta in Sabah (North Borneo).* I. Bull.Osaka Mus.Nat.Hist. no. 27 (1973) 11-21. Over 100 records; 2 new spp., 1 new comb. in Bazzania.
- & ----- *A remarkable new species of Acromastigum with septate rhizoids and filamentous gemmae (Hepat.)* The Bryologist 77 (1974) 57-62, 25 fig. New sp. from Sabah.
- KOPONEN, T. *A monograph of Plagiomnium sect. Rosulata (Mniaceae) (Musci)* Ann.Bot.Fenn. 8 (1971) 305-367, 124 fig. & maps. Key.
- *The East Asiatic species of Plagiomnium sect. Rostrata (Bryophyta).* Act.Bot.Fenn. 97 (1972) 1-29, 70 fig., 1 tab.
- *A preliminary report on the Mniaceae in Japan. I.* (Musci) Hikobia 6 (1973) 185-202, 36 fig. Key to genera and species; no novelties.
- *On Plagiomnium (Mniaceae) in East Asia: P. rhynchophorum, P. elimbatum and Mniium burmense (Musci)* Ann.Bot. Fenn. 11 (1974) 94. Typification; 1 new comb.; 1 new synonym.
- LAWTON, E. *Rhacomitrium crispulum and some related species (Musci)* Bull.Torr.Bot.Club 100 (1973) 230-235, 32 fig. Key to 3 spp. and var. from Austral regions.
- MARGADANT, W.D. & A.H.NORKETT, *The nomenclatural tangle of Garckea phascoides (Musci)* J.Bryol. 7 (1973) 439-441.
- MATTHEW, K.M. *Location of type materials of some Indian mosses.* Rev.Bryol.et Lichén. 39, n.s. (1973) 517-528.
- MIZUTANI, M. *The genus Harpalejeunea from Sabah (North Borneo) (Hepat.)* J.Hattori Bot.Lab. 37 (1973) 191-203, 7 fig. Key to 7 spp.
- NOGUCHI, A. *Mosses of Malaya collected by Dr. Hiroshi Inoue.* Bull.Nat.Sc.Mus.Tokyo 16 (1973) 293-304. 1 new sp.
- *Mosses of Ceylon collected by Dr. Hiroshi Inoue.* Bull. Nat.Sc.Mus.Tokyo 16 (1973) 305-316, 1 fig. 1 new sp. and 1 new comb.

- *Contributions to the bryology of Thailand.* J.Hattori Bot.Lab. 37 (1973) 235-250.
List; one new genus *Bryowijkia* based on *Pterogonium ambiguum* Hook.
- OCHI, H. *Supplement to the subfamily Bryoideae (Musci) in Australia and New Zealand.* Hikobia 6 (1973) 217-223, 2 fig.
Some critical notes in *Bryum*; 1 new name.
- , K.SAITO & T.KOPONEN, *The taxonomic status of Tayloria coreana* Sak. and *T. sinensis* C.Muell. J.Jap.Bot. 49 (1974) 184-188, 2 fig.
They are reduced to *Hyophila involuta* and *Bryum capillare* Hedw. respectively.
- ROSARIO, R.M.DEL, *New and noteworthy Philippine liverworts.* II. Philip.J.Sc. 100 (1971) 227-242, 52 fig.
Including several new comb. and new spp.
- SAITO, K. *Memoir of the Japanese Pottiaceae. I. Subfamily Pottioideae (Musci)* Bull.Nat.Sci.Mus.Tokyo 16 (1973) 61-91, 13 fig. & maps.
Keys to genera and species.
- *Notes on the Pottiaceae (3) (Musci)* J.Jap.Bot. 48 (1973) 161-167, 2 fig.
New comb. and species.
- *Some additional species to the Bryophyte Flora of Sugadaira.* Bull.Sugadaira Biol.Lab. no. 6 (1974) 9-10.
- SCHULTZE-MOTEL, W. *Katalog der Laubmoose von Melanesien.* Willdenowia 7 (1973) 47-82.
The large list includes some new names and new comb.
- *Taxonomische Studien an samoanischen Laubmoosen.* Rev. Bryol.et Lichén. n.s. 39 (1973) 245-252.
- SELKIRK, D.R. *A fossil epiphyllous moss from the Australian Miocene.* The Bryologist 77 (1974) 249-250, 3 fig.
Aff. *Ephemeropsis*; like the Lower Eocene record from browncoals in Germany. The genus ranges at present from Ceylon to New Guinea.
- STONE, I.G. *A new species of Brachydontium from Australia (Musci)* J.Bryol. 7 (1973) 343-351, 3 fig., 1 tab.
- & G.A.M.SCOTT, *Name changes in Australian mosses.* J. Bryol. 7 (1973) 603-605.
New comb. in several genera.
- TAKAKI, N. *Notes on the genus Campylopediella Card. (Musci)* J.Hattori Bot.Lab. 37 (1973) 511-517, 3 fig.

- TIXIER, P. *Le genre Tuyamaella* Hatt. (Lejeunéacées). *Monographie* (Hepat.) *Rev. Bryol. et Lichén. n.s.* 39 (1973) 221-244, 15 fig.
Key to 6 spp., 1 new sp., 1 new comb.
- *Jovetastella* (Lejeuneaceae paradoxae) genre nouveau (Hepat.) *Rev. Bryol. et Lichén. n.s.* 39 (1973) 661-663.
New genus and new sp. from New Caledonia.
- *Bryophytes exotiques*. *Bull. Mus. Nat. Hist. Nat. Paris. sér. III, Bot.* 10 no. 190 (1973) 73-86.
86 spp. listed of Musci, 46 of Hepaticae, coll. in Hawaii, New Caledonia, New Hebrides, S. India and Ceylon.
- *La phyllosphère et les associations d'Hépatiques épiphyllles*. *Sci. & Nature* 119 (1973) 27-34, 8 fig.
- UDAR, R. & S.C. SRIVASTAVA, *A new species of Cyathodium* Kunze, *C. denticulatum* Udar et Srivastava sp. nov., from Darjeeling (Eastern Himalayas), India (Hepat.) *Geophytology* 1 (1971) 165-169, 25 fig.
- VANA, J. *Studien über die Jungermannioideae* (Hepat.). 2. *Jungermannia* Subg. *Jungermannia*. *Folia Geobot. et Phytotax. Praha* 8 (1973) 255-309, 10 Abb.
- *Ditto*. 3. *Jungermannia* Subg. *Liochlaena*. *Folia Geobot. et Phytotax. Praha* 8 (1973) 397-416, 5 Abb.
- *Lebermoose aus Neuguinea*. 10. *Jungermannia*. *J. Hattori Bot. Lab.* 37 (1973) 185-190, 1 Abb.
- *VITT, D.H. *A revision of the genus Orthotrichum* (Musci) *J. Cramer Verlag, Lehre* (1973) 208 pp., 60 pl., maps. (Bryophytorum bibliotheca, vol. 1).
- *A key and synopsis of the mosses of Campbell Island, New Zealand*. *New Zeal. J. Bot.* 12 (1974) 185-210, 1 map. Key; 119 spp.
- YAMADA, K. *Collections of Radula* (Hepaticae) from the Philippines. *J. Jap. Bot.* 48 (1973) 254-255.
- *A new species of Radula* from Mt. Kinabalu, North Borneo. *Misc. Bryol. et Lichen.* 6 (1973) 97-98, 1 fig. *Radula kinabaluensis*.
- ZANTEN, B.O. VAN, *A taxonomic revision of the genus Dawsonia* R. Brown (Musci) *Lindbergia* 2 (1973) 1-48, 11 pl., 6 distr. maps, 3 tab., 2 diagr., 2 phot., 5 tab. Monograph; distribution from Kinabalu to New Zealand; 9 spp. distinguished and several varieties.

d) *Pteridophytes* :

- ABEYWICKRAMA, B.A. *The Pteridophytes of the Knuckles region.* Ceyl. J. Sc., Biol. 5 (1964) 18-29, 2 maps.
A group of mountains to 1850 m NE of Kandy. Brief description of area. List of author's collection, 99 species, no new names.
- & R.N. DE FONSEKA, *The Ceylon Ophioglossaceae.* Ceyl. J. Sc., Biol. 10 (1973) 132-143, 1 fig., 2 pl.
8 spp. in 3 genera; no novelties.
- BIERHORST, D.W. *A peculiar new species of Trichomanes sect. Selenodesmium and several of its probable hybrids* (Hymenoph.) Amer. Fern J. 64 (1974) 18-26, 22 fig., 1 tab.
From New Caledonia.
- BIR, S.S. & C.K. TRIKHA, *Taxonomic revision of the Polypodiaceous genera of India. VI. Lepisorus excavatus group.* Amer. Fern J. 64 (1974) 49-63, 57 fig.
Key to 9 spp. and varieties, 1 new comb., some new varieties. Some spp. in Thailand and China.
- BRAITHWAITE, A.F. *Tmesipteris in the Solomon Islands* (Lycop.) Brit. Fern Gaz. 10 (1973) 293-303, 2 pl., 12 fig.
3 spp., one new.
- BROWNLIE, G. *The genus Lindsaea in Fiji.* Amer. Fern J. 63 (1973) 91-98.
Key to 14 spp.; 1 new var.
- CHANG, CHIH-YÜ, *The morphology of Archangiopteris Christ et Gies. and its relationship with Angiopteris Hoffm.* (Maratt.) Act. Bot. Sin. 15 (1973) 269-270, 6 pl.
- CHIU, PEI-SHI, *On the genus Woodwardia Sm. from the mainland of Asia* (Polypod.) Act. Phytotax. Sin. 12 (1974) 237-248.
Key to 11 spp., several new.
- DASSANAYAKE, M.D. *The development of buds on the rhizome of Polypodium vulgare L.* Ceyl. J. Sc., Biol. 5 (1964) 30-37, 1 pl.
Material from Britain.
- FOSBERG, F.R. *Notes on Micronesian Pteridophyta. III. Ophioglossum nudicaule in the Caroline Islands.* Amer. Fern J. 64 (1974) 1-2.
- HOLTUM, R.E. *On the typification of Mertensia Willd. non Roth (Gleicheniaceae) with notes on Sticherus Presl and Hicriopteris Presl.* Taxon 22 (1973) 447-450.

- *Studies in the family Thelypteridaceae. V. The genus Pneumatopteris Nakai* (Polypod.) *Blumea* 21 (1973) 293-325.
Revision; key to 76 spp.; many new spp. and comb.
- *The identity of three type specimens in the Willdenow Herbarium.* *Amer.Fern J.* 63 (1973) 81-84.
Amphineuron terminans (Hook.) Holtt., comb.nov. (*Pteris interrupta* Willd.), *Christella prolixa* (Willd.) Holtt., comb.nov. (*Aspidium prolixum* Willd.), *Aspidium pulchrum* Willd.
- *The family Thelypteridaceae in the Old World* (Polypod.) in Jermy, Crabbe & Thomas, ed., *Phylogeny & Classification of Ferns; Suppl. 1 to Bot.J.Linn.Soc.* 67 (1973) 173-189, 6 maps.
A masterful survey of all aspects (veins, hairs, aerophores, etc.) of this fascinating large group.
- *Malayan and Australian nest-ferns.* *J.R.Hort.Soc.* 99 (1974) 348-349, fig. 159.
Asplenium australasicum, native in Australia, New Caledonia, Norfolk and Lord Howe Islands, was confused with *A. nidus*.
- *Thelypteridaceae of Africa and adjacent islands.* *J.S. Afr.Bot.* 40 (1974) 123-168.
Systematical account of all known species from Africa and adjacent isles in Indian and Atlantic Ocean. Some groups have affinity in Asia, others in neotropics.
7 new spp.; key to genera; 30 new comb.
- *Additions to the fern flora of Java.* *Reinwardtia* 8 (1974) 499-501.
A new *Cyathea* from S.Sumatra and W.Java, a new *Pneumatopteris* from N.Celebes and a *Pseudophegopteris* from E. Java.
- *The genus Trigonospora (Thelypteridaceae) in Malesia.* *Reinwardtia* 8 (1974) 503-507, 1 map.
Key to 3 spp.; 2 new comb.
- HOLUB, J. *A note on the classification of Botrychium Sw. s.l.* (Ophiogl.) *Preslia, Praha* 45 (1973) 276-277.
Botrychium split into 8 genera; several new comb.
- ITO, H. *Ferns of Thailand and Laos collected by Dr. T. Tuyama in 1957-58.* *J.Jap.Bot.* 49 (1974) 232-236.
Species listed, none new.
- IWATSUKI, K. *Phytogeography of the Pteridophytes in Peninsular Thailand.* *Amer.Fern J.* 63 (1973) 129-134, 1 map.
620 spp. in Thailand; N.Thailand spp. belong to the S. part of the Sino-Himalayan region; Pen.spp. trop.Males.

- * JERMY, A.C., J.A. CRABBE & B.A. THOMAS (ed.) *The phylogeny and classification of the ferns* (1973) — Reviewed on page 2390.
- KATO, M. *A note on the systematic position of Rumohra adiantiformis* (Polypod.) Act. Phytotax. Geobot. 26 (1974) 52-57, 3 fig.
- LLOYD, R.M. *Systematics of the genus Ceratopteris Brongn. (Parkeriaceae) II. Taxonomy*. Brittonia 26 (1974) 139-160, 9 fig., 2 tab.
4 spp. are recognized.
- MATTHEW, K.M. *Pteridophytes from the Darjeeling District*. Bull. Bot. Soc. Beng. 25 (1971) 97-102.
- MICKEL, J.T. *A monographic study of the fern genus Anemia, subgenus Coptophyllum* (Schizaeac.) Iowa State J. Sci. 36 (1962) 349-482, 32 pl., 4 tab.
Keys to subg. and sect.; 1 sp. in S. India.
- *A redefinition of the genus Hemionitis* (Polypod.) Amer. Fern J. 64 (1974) 3-12, 46 fig., 1 tab.
Hemionitis cannot be separated from Gymnopteris; occurs in America and Asia.
- MORTON, C.V. *Studies of fern types II*. Contr. U.S. Nat. Herb. 38 (1973) 215-281.
Second and final part. Very important for names, typification, synonymy and critical notes. Names in alphabetical sequence. One new comb. is superfluous, viz. that in transferring *Salvinia laevigata* H. & B. ex Willd. to the Hydrocharitaceae genus *Limnobium* which was earlier effected by H. Heine (*Adansonia* 8, 1968, 314-315), replacing the well-known name *Limnobium stoloniferum*, a frequently cultivated tropical aquatic.
- NAIR, N.C. *Two new Polystichums from the Himalayas* (Polypod.) Amer. Fern J. 64 (1974) 15-17, 2 fig.
A new sp. from Nepal and a new var. from Punjab.
- OHBA, H. *Microsorium sulawesiense, a new species from Middle Celebes, Indonesia* (Polypod.) J. Jap. Bot. 49 (1974) 173-179, 3 fig.
Collected on a 1971 expedition near Lindu Lake.
- PANIGRAHI, G. & R.D. DIXIT, *Studies in Indian Pteridophytes. IV. The family Ophioglossaceae in India*. Proc. Nat. Inst. Sci. India 35 B (1969) 230-266, 115 fig., 1 tab.
Key to spp.
- PARRIS, B.S. & J.P. CROXALL, *Adiantum viridescens Colenso in New Zealand*. New Zeal. J. Bot. 12 (1974) 227-233, 1 map, 4 fig.

- PRICE, M.G. *A summary of our present knowledge of the ferns of the Philippines*. Kalikasan, Philip.J.Biol. 1 (1972) 17-53.
 General survey, critical notes and some keys to genera in the groups or families; list of new names and comb. in Copeland's work.
- *A new combination in Tectaria* (Polypod.) Amer.Fern J. 64 (1974) 31.
T. trifida (Fée) M.G.Price (*T. irrigua*).
- SERIZAWA, S. *On Arachniodes chinensis* (Polypod.) J.Jap.Bot. 48 (1973) 218-219.
 2 new comb.
- SLEDGE, W.A. *The Dryopteroid ferns of Ceylon*. Bull.Brit.Mus. (Nat.Hist.) Bot. 5 (1973) 1-43, 4 fig.
 Revision; key; some new spp. and comb.
- *Generic and family boundaries in the Aspidiaceae and Athyriaceae*. In Jermy, Crabbe & Thomas, ed., *Phylogeny & Classification of Ferns; Suppl. 1 to Bot.J.Linn.Soc.* 67 (1973) 203-210.
- *Native and naturalized species of Adiantum in Ceylon*. Ceyl.J.Sc., Biol. 10 (1973) 144-154, 12 fig.
 14 spp., no new.
- STONE, B.J. '*Copelandiopteris*', a new genus of Philippine ferns. *Webbia* 28 (1973) 491-494.
 Much ado about nothing; the simple formal description of *Schizostegiopsis* Copel. would have sufficed to validate two specific names and the genus, its validation and typification. Merely a nomenclatural matter.
- TAGAWA, M. & K.IWATSUKI, *New or interesting ferns from Thailand (8)*. Act.Phytotax.Geobot. 26 (1974) 58-61, 1 fig.
 6 spp. discussed incl. *Heterogonium hennipmanii* n.sp.
- TIXIER, P. *Les Fougères-nid*. Sci.& Nature 116 (1973) 13-17, 6 phot.
- WAGNER JR, W.H. *Some future challenges of fern systematics and phylogeny*. In Jermy, Crabbe & Thomas, ed., *Phylogeny & Classification of Ferns; Suppl. 1 to Bot.J.Linn.Soc.* 67 (1973) 245-256, 2 tab.
 Attempt of new system of higher taxa in ferns.
- ZAMORA, P.M. & N.S.VARGAS, *A new habitat record for Drynaria rigidula in the Philippines* (Polypod.) Kalikasan, Philip.J.Biol. 1 (1972) 82-85, 1 fig.

e) *Spermatophytes & General subjects* :

- ABBE, E.C. *The inflorescence and flower in male Myrica esculenta var. farquhariana* (Myric.) Bot. Gaz. (Sept. 1972).
Probably based on observations of Malaysian material.
- ABDULLA, P. *Buddlejaceae*. Flora W. Pakistan no. 56 (1974) 1-5,
1 fig.
Key to 4 spp. of *Buddleja*.
- ABEYWICKRAMA, B.A. *Some new names and combinations for Ceylon plants*. Ceyl. J. Sc., Biol. 2 (1959) 82-85.
15 items.
- *----- (ed.) *A revised handbook to the Flora of Ceylon. Vol. 1*
(1973) — Reviewed on page 2380.
- AGABABIAN, V.S. *Pollen morphology of the family Magnoliaceae*.
Grana 12 (1972) 166-176, 6 pl., 4 tab.
- AHMAD, K.J. *Cuticular studies in some Nelsonioideae* (Acanth.)
Bot. J. Linn. Soc. 68 (1974) 73-80, 2 fig.
Investigated: *Staurogyne*, *Elytraria*, *Nelsonia*. Similarities are with *Acanthaceae*; *Nelsonioideae* are closest to *Thunbergioideae*. Affinity with *Scrophulariaceae* is negative.
- ALKIRE, W.H. *Native classification of Flora on Woleai Atoll*.
Micronesica 10 (1974) 1-5.
List of strand, inland and swamp species arranged in these three groups by native names and with equivalent Latin plant names.
- AMARATUNGA, K.L.D. *Spermacoce latifolia* Aublet, a new record for Sri Lanka. Ceyl. J. Sc., Biol. 10 (1973) 155-156, 1 pl.
This name preferred over *Borreria* (Rubiaceae).
- AMINAH, S.H., S. SASTRAPRADJA, I. LUBIS, D. SASTRAPRADJA & S. IDRIS, *Irritant hairs of Mucuna species* (Legum.) Ann. Bogor. 5 (1974) 179-186, 3 fig., 1 tab.
Microscopical anatomy.
- AMOR, R.L. & B.A. MILES, *Taxonomy and distribution of Rubus fruticosus* L. Agg. (*Rosaceae*) naturalized in Victoria. Muelleria 3 (1974) 37-62, 19 fig., maps.
Key to 9 spp.
- ANDERSON, W.R. *A morphological hypothesis for the origin of heterostyly in the Rubiaceae*. Taxon 22 (1973) 537-542, 2 fig.
Originated as a modification of common protandry.

- ANDRIESSE, J.P. *The characteristics, agricultural potential and reclamation of tropical lowland peats in South-east Asia*. Dept. Agric. Res. Roy. Trop. Inst. A'dam, Communication 63 (1974) 1-63, 5 fig., 6 tab.
- ANONYMUS, *Division of Botany, Lae*. In Annual Report 1971-72, Dept. of Forests, Papua New Guinea, pp. 58-60, 1 phot. Activities of the herbarium; accessions; botanical garden; shows; with beautiful photograph of *Koompassia grandiflora* Kosterm.
- ANONYMUS, *University of Hawaii. Harold L. Lyon Arboretum. A checklist of palms*. Honolulu (1970) 24 pp., illust.
- ANONYMUS, *University of Hawaii. Harold L. Lyon Arboretum. The Taro collection*. Honolulu (1970) 8 pp.
- ANTHONY, M. *Contribution to the knowledge of cecidia of Singapore*. Gard. Bull. Sing. 27 (1974) 17-65, 18 fig., 1 tab., 13 pl.
Commented list of galls.
- * ASTON, H. *Aquatic plants of Australia* (1973) — Reviewed on page 2208.
- BABU, C.R. *Acronema johrianum* Babu: a new species from the Himalayas of Nepal (Umbell.) Brittonia 25 (1973) 159-161, 1 fig.
- * BACKER, C.A. *Atlas of 220 weeds of sugarcane fields in Java* (1973) — Reviewed on page 2209.
- * BADILLO, V.M. *Monografia de la familia Caricaceae*. Asoc. de Profesores, Maracay (1971) 221 pp., 38 pl., illust.
- BAHADUR, K.N., R.C. GAUR & K.C. SAHNI, *Glochidion montanum* Thw. A tree new to the Flora of India (Euph.) Indian For. 99 (1973) 623-627, 1 fig.
Formerly only known from Ceylon.
- & H.B. NAITHANI, *New distributional records of Richardia scabra* Linn. in India (Rubiaceae) Indian For. 99 (1973) 449-453, 1 fig., 2 phot.
Formerly *Richardsonia*; descr., synonym., distr. By 6-merous corolla and 3-celled capsule easily distinct from *Borreria* which it resembles in habit.
- BANERJI, M.L. & B.B. THAPA, *Orchids of Nepal*. 8. (to be contd). J. Bomb. Nat. Hist. Soc. 70 (1973) 330-338, 1 pl.
Keys to genera and species.
- BARLOW, B.A. *Relationships of the New Guinea Loranthaceae*. Proc. Papua New Guinea Sc. Soc. 22 (1970) 26-30, 8 fig., many maps.
About 60 spp. in 11 genera, mostly tropical stocks of

local origin, with weak western Malesian and Australian components. A cytogeographical study has revealed several small relict genera in the temperate southern hemisphere, relicts of an earlier southern temperate phase in the history of the family. One of these genera occurs also in New Guinea.

----- & D.WIENS, *The classification of the generic segregates of Phrygilanthes (= Notanthera) of the Loranthaceae.* Brittonia 25 (1973) 26-39.

Splitting of Phrygilanthes (which is an illeg. name) into some 5 other genera; key to the generic complex; of many chromosome numbers are known; the only Malesian species is made into a new monotypic genus Cecarria (Philippines, New Guinea, New Britain, Solomons). Of the complex only Muellerina (SE.Australia) is in the Old World; others in South America (mostly Andes), showing ancient relationship in austral regions; in an appendix there is a nomenclator to all genera and species involved in the Phrygilanthus group; in an other appendix there is a key to all American genera of Loranthaceae.

+ BARTON, L.V. *Bibliography of Seeds.* Columbia Univ. Press, New York/London (1967) 858 pp.

20140 titles of papers and books on seeds (sens.lat.); plant and subject indices.

BAUM, B.R. *Typification of Linnaean species of oats, Avena* (Gram.) Taxon 23 (1974) 579-583, 1 fig.

* BEADLE, N.C.W. c.s. *Flora of the Sydney region. Pteridophyta and Bipinnate Acacias by M.D.Tindale. Revised and enlarged edition.* Reed, Sydney (1972) 724 pp., frontisp. (map), 16 pl. (8 col.), text illust.

First published in 1963 as Handbook of the Vascular Plants of the Sydney District and Blue Mountains. A most important new Flora of a great part of New South Wales.

BECK, A.R., J.L.WEIGLE & E.W.KRUGER, *Breeding behavior and chromosome numbers among New Guinea and Java Impatiens species, cultivated varieties, and their interspecific hybrids* (Balsam.) Canad.J.Bot. 52 (1974) 923-925, 1 pl., 1 tab.

BEDI, S.J., S.D.SABNIS & D.N.THAKER, *Additions to the Flora of Pavagadh Hill, Gujarat State.* Indian For. 98 (1972) 667-668.

17 native spp.

- BENL, G. *Ptilotus wilsonii* spec.nov., eine weitere xerophytische Amaranthacee aus Westaustralien. Mitt.Bot.München 11 (1973) 57-63, 1 fig.
- BENNET, S.S.R. Occurrence of *Sesamum malayanum* Nair in Goa Forests (Pedal.) Indian For. 100 (1974) 691.
- BHANDARI, M. A note on the occurrence of *Saccharum rufipilum* Steud. in the Dehra Dun Siwaliks (Gram.) Indian For. 99 (1973) 241-242.
Probably introduced through cattle.
- BILLORE, K.V. A new variety of *Delphinium malabaricum* (Huth) Munz from the Western Ghats (Ranunc.) Indian For. 99 (1973) 436-439, 1 pl.
D. malabaricum var. *ghaticum* var.nov., descr.
- BIRARI, S.P. A new species of *Themeda* Forsk. from Mussoori (India) (Gram.) J.Bomb.Nat.Hist.Soc. 70 (1973) 346-347, 1 pl.
- * BISHOP, L.E. *Honolulu Botanic Gardens Inventory 1972*. Friends of Foster Gard. Press (1973) 293 pp.
Catalogue of ferns and flowering plants; a few drawings; seven areas; concise history of gardens and botany of Hawaii; names alphabetical arranged by families.
- BISSET, N.G., P.W.LEENHOUTS, A.J.M.LEEUWENBERG, D.PHILCOX, C.TIREL-ROUDET & J.E.VIDAL, *The Asian species of Strychnos. II. Typification, miscellaneous notes, synoptic key, and sectional classification* (Logan.) Lloydia 36 (1973) 179-201.
44 spp.; revised sectional classification.
- BLAKE, S.T. *Taxonomic and nomenclatural studies in the Gramineae. No.3*. Proc.R.Soc.Queensl. 84 (1973) 61-70, 2 pl.
In *Digitaria* 2 new spp., in *Paspalidium* 3 new spp., in *Ectrosia* a new comb.
- * BODEGOM, J.VAN, *Enige Orchideeën van West Nieuw Guinea*. Reprod.Techn.Hogeschool Twente (1973) 199 pp., illust.
Detailed descriptions and photographs of 85 New Guinea orchids. Observations made on living plants from 1954-1962. Several supposed to be new but unnamed.
- BODEN, R.W. & R.H.POWELL, *A Waratah hybrid*. Austr.Plants 7 (1973) 168-170, 2 col.phot.
Telopea speciosissima x *mongaensis* (Proteaceae) made for obtaining a more hardy beautiful species.
- BOGNER, J. *Die Gattung Pycnospathia Thorel ex Gagnep.* (Arac.) Öst.Bot.Z. 122 (1973) 199-216, 8 Abb., 1 Karte.
2 spp. distinguished (1 in Laos, 1 in Thailand); affinity prob. transpacific with *Dracontium* from trop.Amer.

- *Reisindrukken uit India en Ceylon (vertaling van H.W.E. van Bruggen)*. Het Aquarium 44 (1974) 210-213, 8 fig.
Miscellaneous notes on waterplants in India and Ceylon.
- BOLE, P.V. & P.R.FERNANDEZ, *Notes on Bombay plants*. J.Bomb. Nat.Hist.Soc. 70 (1973) 409-412, 2 pl.
I.a. var. of *Premna latifolia* (Verben.).
- BOR, N.L. *Two new species of Gramineae from Asia*. Bot.Tidsskr. 67 (1973) 324-326.
Capillipedium sulcatum Bor sp.nov. (Thailand), *Brachiaria nilagirica* Bor sp.nov. (India).
- BOULOS, L. *Révision systématique du genre Sonchus L. s.l. IV. Sous-genre 1. Sonchus. (to be contd.)* (Comp.) Bot. Notis. 126 (1973) 155-196, 35 fig. & maps.
- BRIGGS, B.G., R.C.CAROLIN & J.M.PULLEY, *New species and lectotypification in Australian Plantago* (Plantag.) Contr. N.S.W.Nat.Herb. 4 (1973) 395-398.
5 new spp. mostly from Mt. Koscinko.
- BROCKIE, W.B. *Botanical notes. Annotated by M.J.A.Simpson*. New Zeal.J.Bot. 11 (1973) 581-584.
Miscellaneous floristic notes.
- BRÜNIG, E.F. *Die Dipterocarpaceenwälder in Sarawak und Brunei (Borneo)*. Mitt.Deut.Dendrol.Ges. 65 (1972) 123-136, 13 fig.
General. Since Early Tertiary.
- *Species richness and stand diversity in relation to site and succession of forests in Sarawak and Brunei (Borneo)*. Amazoniana 4 (1973) 293-320, 1 map, 1 tab., 10 fig., 1 pl.
Diversity! Kerangas versus mixed Dipterocarp forest and peat swamp types.
- *Some further evidence on the amount of damage attributed to the lightning and wind-throw in Shorea albida-forest in Sarawak* (Dipt.) Commonw.For.Rev. 52 (1973) 260-265, 2 pl., 1 map, 1 tab.
- BURBIDGE, N.T. *Progress towards a new Flora of Australia*. CSIRO Div.Pl.Industry, Annual Rep. (1973) 31-34.
Developing plans for preliminaries for Flora Australiensis. Nancy Burbidge is engaged in making an index (card system) of plant names used for Australian plants native and introduced. By Oct. 1973 15,000 were made. August 1974 she was, I am told, advancing to 1900 date time, and 24,000 cards were ready. — v.St.
- *BURGER, D. *Seedlings of some tropical trees and shrubs mainly of South East Asia* (1972) — Reviewed on page 2209.

- BURTT, B.L. *General introduction to papers on Zingiberaceae*. Notes R.Bot.Gard.Edinb. 31 (1972) 155-165.
An attempt to extend Holttum's Classification. Labellum types; comment on staminodes, ovarial glands. Subdivision outlined. List of papers mainly after 1950.
- *Polygala arvensis, chinensis & glomerata* (Polygal.) Notes R.Bot.Gard.Edinb. 32 (1973) 403-404.
P. chinensis rejected as a nom.confusum for P. glomerata. It is not clear why Burtt declared the name P. chinensis as an ambiguous name, since it is according to his research well typified, as already found by Merrill 1935. If he did so to save P. glomerata, it means abandoning the type method and stealthy introduction of nomina specifica conservanda, for which Art.69 is not intended. — v.St.
- *Studies in the Gesneriaceae of the Old World. XXXVII. Schizoboea, the erstwhile African Didymocarpus*. Notes R.Bot.Gard.Edinb. 33 (1974) 265-267.
All African 'Didymocarpus' removed and reduced to one species of the new genus Schizoboea.
- & M.H.BOKHARI, *Ditto. XXXVI. Foliar sclereids in New Guinea and Pacific Cyrtandra*. Notes R.Bot.Gard.Edinb. 32 (1973) 397-402, 2 fig.
- & O.A.OLATUNJI, *The limits of the tribe Zingibereae*. Notes R.Bot.Gard.Edinb. 31 (1972) 167-169.
Genus Zingiber the only one; delimited against Hedychieae.
- & R.M.SMITH, *Tentative keys to the subfamilies, tribes and genera of Zingiberaceae*. Notes R.Bot.Gard.Edinb. 31 (1972) 171-176.
- & ----- *Key species in the taxonomic history of Zingiberaceae*. Notes R.Bot.Gard.Edinb. 31 (1972) 177-227.
Typification of type species of genera and at completeness up to 1830, number of items 47; nomina conservanda and rejicienda; nomenclatural comments; drawings.
- & ----- *Notes on Malesian Zingiberaceae*. Notes R.Bot.Gard.Edinb. 31 (1972) 307-316.
Various novelties and critical notes, on 19 spp.
- BUTZIN, F. *Die Namen der supragenerischen Einheiten der Gramineae (Poaceae)*. Willdenowia 7/1 (1973) 113-168.
Subfamilies, tribes, subtribes; names alphabetical.
- CAPURON, R. *Sur l'identité du Cephalanthus chinensis Lam.* (Rubiaceae) Adansonia ser. 2, 13 (1973) 471-473.
Type from Madagascar; = Breonia chinensis (Lam.) Capur.

- CARDER, V.A. *Sycopsis sinensis* (Hamam.) Curtis Bot. Mag. n.s 179 (1973) tab. 655.
From China.
- CHAI, P.P.K. *The types of mangrove forest in Sarawak*. For. Dept. Sarawak (1973) 34 pp. mimeogr., 1 map.
8 types described; field key to trees and shrubs.
- CHANG, CHE-TSENG & CH'ENG-HUNG YU, *A study of the trichomes and the epidermis of the phyllary of Chinese Blumeas* (Comp.) Act. Phytotax. Sin. 12 (1974) 303-316, 5 pl.
27 spp. In Chinese.
- CHAO, JEW-MING, *Genus Hyphear of Taiwan* (Loranth.) Taiwania 18 (1973) 169-171, 1 fig.
Key to 2 spp., of which 1 new (*H. kaoi* Chao).
- CHAO NENG, *A new species of the genus Zanthoxylum L. from Szechuan* (Rutac.) Act. Phytotax. Sin. 12 (1974) 235-236.
- CHAROENPHOL, C.C. *Studies in the genus Chlorophytum of Thailand* (Liliac.) Thai For. Bull., Bot. no. 7 (1973) 67-69.
Key to 3 spp. and 3 varieties; index to coll. specimens.
- CHAUDHURI, A.B. *An ecologico-botanical study of the Lauraceae of North Bengal*. Bull. Bot. Surv. Beng. 24 (1970) 121-129, 5 tab.
- CHEAH, C.H. & B.C. STONE, *Studies in the Malesian Pandanaceae. VII. Chromosome studies of the genus Pandanus*. Bot. Jahrb. 93 (1973) 498-529, 7 fig., 7 tab.
 $2n=60$ (except in some cultivars) in 19 spp.; for *Freyinetia* $2n=(50, 56 \text{ or/and } 58)$ yet not certain.
- CHEN, YUNN-TZAW, *The classification of Begonia on the leaf characters* (Begon.) J. Chin. Soc. Hort. Sci. 18 (1972) 250-252, 1 fig.
In Chinese. Key to 27 spp. cult. in Taiwan.
- CHENNAVEERIAIAH, M.S. & R.M. PATIL, *Apomixis in Blumea* (Comp.) Phytomorphology 21 (1971) 71-76, 25 fig.
Polyploid 'species' among the weedy plants.
- CHOU, YI-LIANG, *Materials for the study on Salix of Shingaling, China* (Salic.) Act. Phytotax. Sin. 12 (1974) 1-20, 7 pl.
Records and new spp.
- CHOW, K.H. *Morphology and ecology of some introduced herbaceous legumes*. Gard. Bull. Sing. 27 (1974) 85-94, 4 pl.
8 exotics tried out in Singapore of the genera *Desmodium*, *Stylosanthes*, *Glycine* and *Phaseolus*.

- CHU, F. FEI-TAN, *Anatomical features of the Dipterocarp timbers of Sarawak*. Gard. Bull. Sing. 27 (1974) 95-119, 2 tab. Homogeneous groupings (c. 12) correspond mainly to generic categories; key of anatomical features.
- CHUNG, THEIN-FOOK, TSENG-CHIENG HUANG & R. B. STAMPS, *Paleo-ecological study of Taiwan (3). The P'u-li Basin*. Taiwania 18 (1973) 179-193, 8 fig. & map, 4 tab. Pollen account from the last 16,000 years, in Central Formosa.
- CLAYTON, W. D., S. M. PHILLIPS & S. A. RENVOIZE, *Gramineae Part 2: XXII. Eragrostideae. XXIII. Chlorideae. XXIV. Sporoboleae. XXV. Leptureae. XXVI. Zoysieae. XXVII. Arundinelleae. XXVIII. Isachneae*. Fl. Trop. East Afr. (10 Apr. 1974) 177-449, fig. 56-119; index. Concludes this very important regional monograph.
- CLEMENTS, G. R. *Aërides crassifolium 'Birchwood'*, CCM-CBM/AOS. Amer. Orch. Soc. Bull. 43 (1974) 587-588, 2 col. phot. Notes on the cult. of this Burmese species.
- * CLIFFORD, H. T. & G. LUDLOW, *Keys to the families and genera of Queensland flowering plants (Magnoliophyta)* (1972) — Reviewed on page 2382.
- CONERT, H. J. & A. M. TÜRPE, *Revision der Gattung Schismus (Poaceae: Arundinoideae: Danthonieae)*. Abhandl. Senckenb. Naturf. Ges. 532 (1974) 1-81, 18 Abb., 1 Tab. Mainly S. African genus, also in Asia; key to 5 spp.
- CONNOR, H. E. & E. EDGAR, *Names and types in Cortaderia Stapf (Gram.)* Taxon 23 (1974) 595-605. Extension of this American-New Zealand genus to New Guinea by reduction of Danthonia archboldii to Cortaderia archboldii (Hitchc.) Connor & Edgar, comb. nov.
- * COODE, M. J. E. *A dictionary of the generic and family names of flowering plants for the New Guinea and Southwest Pacific region* (1969) — Reviewed on page 2210.
- COOK, C. D. K. *New and noteworthy plants from the northern Italian ricefields*. Ber. Schweiz. Bot. Ges. 83 (1973) 54-65. List includes 4 spp. new record for Europe; rice cultivation around Vercelli dates from at least the year 1475.
- * ----- et al. *Water plants of the world. A manual for the identification of the genera of freshwater macrophytes* (1974) — Reviewed on page 2384.
- CORN, C. A. & W. M. HIESEY, *Altitudinal variation in Hawaiian Metrosideros (Myrt.)* Amer. J. Bot. 60 (1973) 991-1002, fig.

- CORNER, E.J.H. *Urgent exploration needs: Pacific Floras*. Pac. Sc. Assoc. Inform. Bull. 24 (1972) 17-27, 1 fig., 1 phot. Report of the Standing Committee on Pacific Botany, publ. in Record Proc. 12th Pac. Sci. Congr. Canberra, Subcommittee on Floristics & Biogeography. Status of various countries as to exploitation and deforestation.
- * COSTIN, A.B. & R.H. GROVES (ed.) *Nature conservation in the Pacific* (1973) — Reviewed on page 2211.
- CRUTTWELL, N.E.G. *The ascent of Mt. Suckling*. Quart. Bull. Amer. Rhodod. Soc. 27 (1973) 70-77, 2 fig.
- * CURTIS, W.M. *The endemic flora of Tasmania 4* (1973) — Reviewed on page 2212.
- DAN TIN MYO NGWE c.s. *On the medical plants of the Mandalay Region*. Univ. Acad. J., Tekkatho Pyinnya Padetha 6 (1972) 217-320, illust. In Burmese.
- DAS, A.R. *Author and subject catalogue of the botanical and allied articles published in the periodicals of the Asiatic Society of Bengal, 1788-1969*. J. As. Soc. Beng. 11 (1969) 43-62. Alphabetical on authors, and also on main subject; end pages and dates given.
- * DASMANN, R.F. et al. *Ecological principles for economic development* (1973) — Reviewed on page 2384.
- DASSANAYAKE, M.D. & M. CHELVATHURAI, *The extraxylary fibres of Cissampelos pareira L. (Menisp.)* Ceyl. J. Sc., Biol. 10 (1973) 122-131, 7 fig.
- & B. SIVAKADACHCHAN, *Germination and seedling structure of Borassus flabellifer L. (Palm.)* Ceyl. J. Sc., Biol. 10 (1973) 157-166, 10 fig.
- DATTA, R.M. & D. MUKHOPADHYAY, *Biosystematic studies in Corchorus olitorius (Strain-C.G.) (Tiliac.)* J. Palyn. 5 (1969/70) 95-96, 1 tab. Polyploid races.
- DAVIDSON, J. *Forest tree improvement in Papua and New Guinea. II. Kamerire*. 9th Commonw. For. Conf. 1968, 2nd ed. (1972) 8 pp., 3 fig., 2 pl. Data on Eucalyptus deglupta Bl. (Myrtac.).
- DAVIS, J.S. & P.B. TOMLINSON, *A new species of Ruppia in high salinity in Western Australia (Potamog.)* J. Arn. Arb. 55 (1974) 59-66, 10 fig. *R. tuberosa* n.sp.; forms turions; fruits sessile.

- DEB, D.B. *New taxa of Rubia L.* (Rubiaceae) Bull. Bot. Soc. Beng. 24 (1970) 163-167, fig.
R. nephrophylla Deb and *R. chekiangensis* Deb, spp. nov.
- DEGENER, O. & I. DEGENER, *Santalum paniculatum var. chartaceum* Deg. & Deg. (Santal.) Phytologia 27 (1973) 145-147, 2 phot.
- & ----- *Flotsam and Jetsam of Canton Atoll, South Pacific.* Phytologia 28 (1974) 405-418, 8 fig.
 Plant list; 2°46-52' S, 171°37-44' W. Phoenix group.
- & ----- *Spathodea in Hawaii* (Bign.) Phytologia 28 (1974) 419-420.
S. campanulata & *S. nilotica f. bryanii f. nov.*
- DOCKRILL, A.W. *Australian Bulbophyllum* (Orch.) Austr. Plants 7 (1974) 210-219, fig., 2 col. pl.
 Key to 19 spp. and these annotated with descr.
- DRANSFIELD, J. *The Javanese Palm flora, First impression.* Berita Biologi 1 (1971) 21-25.
- *Korthalsia hispida* Becc. in Malaya (Palm.) Gard. Bull. Sing. 26 (1973) 239-244, 2 fig.
 Full notes and localities.
- *Pigafetta filaris* in Sibolangit (Palm.) Principes 17 (1973) 105-107, 2 phot.
- *Variegated Pinangas* (Palm.) Principes 18 (1974) 22-24, 4 fig.
 Observations in Sumatra and Borneo.
- *New light on Areca langloisiana* (Palm.) Principes 18 (1974) 51-57, 4 fig.
 Synonymy of *Areca vestiaria*, the proper name for *A. langloisiana*; Celebes and Moluccas; cult. elsewhere.
- *Notes on Caryota no Becc. and other Malesian Caryota species* (Palm.) Principes 18 (1974) 87-93, 3 phot.
- *Notes on the Palm flora of Central Sumatra.* Reinwardtia 8 (1974) 519-531.
 General experiences and observations on palms in different vegetation types, during several expeditions.
- DRURY, D.G. *Annotated key to the New Zealand shrubby Senecio-
 neae-Compositae and their wild and garden hybrids.* New Zeal. J. Bot. 11 (1973) 731-784, 22 fig.
 Synoptical key; hybrids, also generic, between shrubby *Senecio* and *Brachyglottis*; some *Senecios* transferred to *Brachyglottis*; a few new spp.

- DÜLL, R. *Die Peperomia Arten Afrikas*. Bot. Jahrb. 93 (1973) 56-129, fig. 1-16.
Revision; key; descr.; enum. specimens. Contains also species which occur outside Africa in SE. Asia.
- DUTT, A.K., T.K. DUTTA & K.K. GUPTA, *A tentative accounting of the forest flora of North Cachar Hills and Barail Range*. Indian For. 100 (1974) 60-76.
314 spp. listed, nothing new.
- EARLE, S.A. *A Western Botanist in Eastern China*. Plant Sci. Bull. 20 (1974) 1-4, 2 phot.
Interesting report on recent status and progress in China.
- EICHLER, H. *Proposal to conserve the generic name 5909a Dichosciadium Domin, a monotypic genus from the Australian alps and Tasmania* (Umbell.) Taxon 23 (1974) 437-438.
- EKANAYAKE, D.T. *The anatomy of Rhododendron zeylanicum Booth (R. arboreum sensu Trim.)* (Eric.) Ceyl. J. Sc., Biol. 4 (1962) 96-111, 8 fig.
Adaptations to wind and fire in its montane habitat; ligno-tuber.
- ELY, C.A. & R.B. CLAPP, *The natural history of Laysan Island, Northwestern Hawaiian Islands*. Atoll Res. Bull. no. 171 (Dec. 1973) xi + 361 pp., 41 fig., many tab.
Vegetation and plant records p. 64-65; uninteresting.
- ENAYET HOSSAIN, A.B.M. *Notes on Asiatic Acanthaceae*. Notes R. Bot. Gard. Edinb. 32 (1973) 405-410.
16 new comb. in various genera.
- *ERICKSON, R., A.S. GEORGE, N.G. MARCHANT & M.K. MORCOMBE (ed.) *Australian Flora in colour. Flowers and plants from Western Australia*. Reed, Wellington, New Zealand (Jan. 1974) 216 pp., 538 col. phot.
Singular beautiful book on this spectacular flora; each photograph accompanied by text.
- ESSIG, F.B. *Pollination in some New Guinea Palms*. Principes 17 (1973) 75-83, 7 phot.
- EUSSEN, J.H.H. & SOEMANTRI WIRJAHARDJA, *Studies of an alang-alang (Imperata cylindrica (L.) Beauv.) vegetation* (Gram.) BIOTROP Bull. no. 6 (1973) 1-24, 18 fig., 4 tab.
Observations in Lampong Districts. Weeds in alang-fields.
- FERGUSON, D.K. *The identity of Lonicera rhytidophylla (Capr.)* Notes R. Bot. Gard. Edinb. 32 (1973) 415-416.
Reduced to *L. reticulata*.

- FINERAN, B.A. *A botanical survey of seven Mutton-bird Islands, South-west Stewart Island*. J.R.Soc.New Zeal. 3 (1973) 475-526, 25 fig.
Vegetation, flora, checklist of this islet in South of New Zealand.
- FLORA OF WEST PAKISTAN, families 1-45 (1970-1973) — Reviewed on page 2212.
- FORMAN, L.L. *Galearia (Pandaceae) also in Thailand and Indo-China*. Kew Bull. 29 (1974) 212.
Small correction on Galearia in Thailand and Indo-China in his paper in Kew Bull. 26 (1971) 153-165.
- FOSBERG, F.R. *Guide to Excursion III, 12th Pacific Science Congress (1972)* — Reviewed on page 2213.
- *Emilia in Ceylon* (Comp.) Ceyl.J.Sc., Biol. 10 (1972) 61-69.
Key to 6 spp. of which 4 are new spp.
- & M.V.C.FALANRUW, *A new Micronesian Terminalia* (Combr.) Phytologia 28 (1974) 469-470.
Aff. *T. catappa* and *T. samoensis*; from the Marianas.
- & M.-H.SACHET c.s. *Plants of Southeastern Polynesia*. 2. Micronesica 8 (1972) 43-49.
Notes and records of spp. of *Peperomia* (1 new comb.), *Ascarina*, *Weinmannia* (2 new comb., 1 new var.), *Ardisia*, *Alstonia* (1 new sp.), *Ochrosia* (2 new spp.), *Neiosperma* (1 new comb., 1 new sp.), *Operculina*.
- & ----- *A new variety of Fagraea berteriana* (Gentian.) Phytologia 28 (1974) 470-472.
From the Marquesas Islands.
- FOX, J.E.D. *Effets de l'utilisation accrue de la forêt naturelle sur le succès de la régénération naturelle à Sabah*. Rev.Bois Forêts Trop. no. 141 (1972) 3-27, many phot., sketch map.
The lowland dipterocarp forests of N.Borneo are so rich in commercial species that exploitation now almost amounts to clear felling. The Malayan 'uniform system' here applied, which involves favouring of seedlings through poison girdling of undesired trees and removal of lianas, is discussed. Accounts of sampling are compared with regard to measures shortly after felling to promote regeneration.
- *----- *A handbook to Kabili-Sepilok Forest Reserve* (1974) — Reviewed on page 2386.

- *FRANCIS, W.D. *Australian rain-forest trees: including notes on some of the tropical rain-forests and descriptions of many tropical species*. 3rd ed. Austr.Gov.Publ.Serv.Canberra (1970) xvi + 468 pp., frontisp., end-paper map, text illust.
Nomenclatural changes and other minor alterations in this 3th ed. by G.M.CHIPPENDALE.
- FRYXELL, P.A. *New species of Gossypium, Decaschistia, and Macrostelia from Australia* (Malv.) Austr.J.Bot. 22 (1974) 183-193, 3 fig., 2 tab.
Decaschistia was by van Borssum Waalkes reduced to Pavonia. Macrostelia was only known from 3 spp. in Madagascar.
- FU, KUN-TSUN, *Revision of the section Oreades on Chinese Sedum* (Crassul.) Act.Phytotax.Sin. 12 (1974) 51-77, 3 pl. 59 spp. listed, several new.
- FUJITA, Y. *Some considerations on the vernacular names of Setaria italica Beauv. in south-eastern Asia* (Gram.) J.Jap.Bot. 48 (1973) 187-188.
- FUKUOKA, N. *Taxonomic study of the Caprifoliaceae*. Mem.Fac.Sc. Kyoto, Biol. 6 (1972) 15-58, 7 fig., 12 pl.
In fact a morphological study, mainly of the ovary, and mainly on material from Japan, Himalayas, SE.Asia, resulting in some rearrangement of genera into the 6 tribes. Carlemannia is not included, but no further decision made. Delimitation against Rubiaceae not discussed.
- *Floral anatomy of some species of Lonicera sect. Nintooa* (Caprif.) Shoei Jr.Coll.Ann.Rep.Stud. 5 (1973) 23-31.
Among them L. pulcherrima from N.Sumatra. Unfortunately no voucher specimens are cited.
- GARAY, L.A. *On the systematics of the monopodial Orchids. II*. Bot.Mus.Leafl.Harv.Univ. 23 (1974) 369-375.
Key to spp. of Papilionanthe (kept separate from Vanda and Aerides); new comb. (incl. Aerides sect. Phalaenidium) in Thrixspermum, Vandopsis; Xenikophyton n.g. based on Saccolabium smeeanum Rchb.f.
- *----- & H.R.SWEET, *Orchids of the southern Ryukyu Islands* (1974) — Reviewed on page 2387.
- GEERINCK, D. *Revision of Australian Iridaceae*. Bull.Jard.Bot. Nat.Belg. 44 (1974) 29-60, 2 fig.
7 genera with 21 spp. Of interest is that Libertia pulchella of the Papuan mountains is referred to the genus Sisyrinchium. No novelties or new comb.

- GEESINK, R. *A synopsis of the genus Swertia in Malesia* (Gent.)
Blumea 21 (1973) 179-183.
Key to 6 Malesian spp. and subsp.
- GILLET, G.W. *The genus Cyrtandra in Fiji. A Supplement*
(Gesner.) Taxon 22 (1973) 701.
Proposal of the new name *C. natewaensis* G.W.Gillett,
for *C. attenuata* Gillett, non Elm.
- *The genus Cyrtandra in the South Pacific* (Gesner.)
Univ. Cal. Publ. Bot. 66 (1973) 1-59, 9 fig. & maps.
An interesting monograph with key to 54 spp. *Cyrtan-*
droidea F. Brown reduced to *Cyrtandra*. Evolution ex-
plained through occasional long-distance dispersal, but
obviously not over some 500 miles and subsequent gen-
etic drift. In the New Hebrides a species with alter-
nate leaves! In the Marquesas a species with regular
corollas and 4-5 stamens.
- GILLIS, W.T. & W.T. STEARN, *Typification of the names of the*
species of Leucaena and Lysiloma in the Bahamas. (Leg.)
Taxon 23 (1974) 185-191, 1 fig.
Leucaena leucocephala must again change name and be
called *L. latisiliqua* (L.) Gillis.
- GIVEN, D.R. *Naturalised flowering plants in South-west Fiord-*
land, New Zealand. New Zeal. J. Bot. 11 (1973) 247-250, 1
map.
4 spp. listed, all European.
- GOVINDARAJALU, E. *Studies in Cyperaceae. VII. New evidences*
for the revalidation of Fimbristylis velata R.Br.
Reinwardtia 8 (1974) 509-513, 1 fig.
Anatomy and palynology deemed sufficient strength to
Mr. G.'s contention to distinguish from *F. squarrosa*.
- GRAY, A.M. *The mainland Bedfordia* (Comp.) Austr. Plants 7
(1973) 178-179.
Key to 2 spp.
- *A yellow form of the Tasmanian Waratah, Telopea trunca-*
ta (Labill.) R.Br. (f. *lutea* A.M. Gray) (Proteac.)
Muelleria 3 (1974) 63.
- *The status of Bedfordia on the Australian mainland*
(Comp.) Muelleria 3 (1974) 64-66, 1 fig.
Tabulated differences *B. arborescens* and *B. salicina*.
- GRAY, B. *Distribution of Araucaria in Papua New Guinea*
(Arauc.) Research Bull. no. 1, Dept. For. Papua New Guinea
(Oct. 1973) 1-56, 21 phot., 3 maps.
An excellent survey of the stands of the two species,
A. cunninghamii and *A. hunsteinii*.

- GREEN, P.S. *Negria rhabdothamnoides* (Gesner.) Curtis Bot. Mag. n.s. 179 (1973) tab. 659.
From Lord Howe I.
- GROHMANN, F. *Oleaceae*. Flora West Pakistan no. 59 (1974) 27 pp., 4 fig.
- GRUSHVITZKY, I.V. & N.T. SKVORTSOVA, *Scheffleropsis* Ridl. The new genus for the North Vietnam Flora and representative of the oldest tribe of Araliaceae. Bot. Journ. 58 (1973) 1492-1503, 5 fig.
- & ----- *Notae criticae de generis Schefflera* Forst. & Forst. f. speciebus nonnullis e Viet Name boreali et China austro-occidentali (Aral.) Nov. Syst. Pl. Vasc. 10 (1973) 211-217, 3 fig.
- GUHA, B.P. *Grasses and sedges of Birbhum District (West Bengal)*. Bull. Bot. Soc. Beng. 25 (1971) 5-18, map, 2 tab.
- GUHA BAKSHI, D.N. A new species of *Fimbristylis* Vahl from Assam (Cyper.) Bull. Bot. Soc. Beng. 24 (1970) 111-113, 1 fig.
F. assamica Cl. ex Guha Bakshi, sp. nov.
- , J. LAHIRI & R. PRASAD, A synoptic study of phytogeographical distribution of the family Saxifragaceae in the eastern and western Himalayas. Bull. Bot. Soc. Beng. 25 (1971) 125-128.
- GUILLAUMIN, A. *Contributions à la Flore de la Nouvelle-Calédonie*. CXXX. Plantes des îles Walpole et Matthew. Bull. Mus. Nat. Hist. Nat. Paris sér. III, no. 192 (1973) Bot. 12: 181-183.
Species listed by name only.
- GUINET, PH. *Les Mimosacées*. Trav. Sect. Sc. & Techn. (Inst. Franc. Pondichéry) 9 (1969) 33, 291.
Piptadenia novoguineensis and two other spp. from Polynesia and Madagascar are palynologically belonging to the re-instated genus *Schleinitzia* Warb. Transfers are invalidly published; the type species of *Schleinitzia* is not mentioned.
- HA THI DUNG, *Florae vietnamensis taxa nova e tribu Aralieae Benth. (fam. Araliaceae)*. Nov. Syst. Pl. Vasc. 11 (1974) 226-240, 6 fig.
New var. in *Pentapanax*. *Acantophora scandens* transferred to *Aralia scandens* (Philippines). New spp. and var. in *Aralia*.

- *HALL, N., R.D. JOHNSTON & G.M. CHIPPENDALE, *Forest trees of Australia*. 3rd ed. Austr. Gov. Publ. Serv. Canberra (1970) xiv + 334 pp., many maps, phot., colour pl. Largely Eucalyptus; also a few species of Angophora, Acacia, Syncarpia, and some conifers.
- HALLÉ, N. *Observations nouvelles sur quatre Bulbophyllum, Orchidées des Serres du Muséum, trois espèces de Nouvelle-Calédonie, une de Birmanie*. Bull. Mus. Hist. Nat. Paris sér. 3, no. 127, Bot. 7 (1973) 11-20, 4 pl. One new comb. in Bulbophyllum.
- *Captaincookia*, genre nouveau monotypique Néocalédonien de Rubiaceae-Ixoreae. Adansonia ser. II, 13 (1973) 195-202, 5 fig.
- *Architecture of trees in the rain forest of Morobe District, New Guinea*. Biotropica 6 (1974) 43-50. Schemes of branching systems.
- HANS, A.S. *Chromosomal conspectus of the Euphorbiaceae*. Taxon 22 (1973) 591-636. Bentham & Hooker taken as basis; phylogenetic comments given. Main basic numbers 7 and 13. Besides Macaranga very few from Malesia. Long list of references.
- HANSEN, B. *Notes on some Balanophoraceae from Madagascar*. Bot. Tidsskr. 69 (1974) 58-59. Ditepalanthus a good monotypic genus; Langsdorffia malagastica (Fawc.) Hansen a wide extension of the genus (hitherto known from Brazil and New Guinea) based on Thonningia malagastica Fawc.
- HARA, H. *New or noteworthy flowering plants from Eastern Himalaya (13)*. J. Jap. Bot. 48 (1973) 353-361, 4 fig. New spp. of Anemone, Viola, Begonia, Lysionotus.
- *Ditto (14)*. J. Jap. Bot. 49 (1974) 129-137, 2 fig. New spp. of Diplotaxis, Draba, Viola (new var.), Primula, Rorippa (new comb.), Asparagus, Vallisneria (new comb. and new vars. of V. natans (Lour.) Hara, syn. V. giganteum Graebn.). Notes on Bruinsmia.
- *Ditto (15)*. J. Jap. Bot. 49 (1974) 193-205, 5 fig. Nepal. Pilea n.sp.; Chrysobraya n.g.; Staintoniella n.g.; Ermaniopsis n.g. (all three Cruc.); Juncus n.sp.; Lloydia n.sp.; Iris n.sp.
- *A new species of Allium from Idzu Peninsula, Central Japan (Liliac.)* J. Jap. Bot. 49 (1974) 1-3, 1 fig.

- HARTLEY, T.G., E.A. DUNSTONE, J.S. FITZGERALD, S.R. JOHNS & J.A. LAMBERTON, *A survey of New Guinea plants for alkaloids*. *Lloydia* 36 (1973) 217-319.
An important list, the outcome of examination of c. 3700 botanical collections, made 1962-1965. Several new important records were made in families where alkaloids were not known and several new alkaloids were detected. Among the introductory matter is a chapter on various vegetation types (habitats) where the collections were made.
- HARTOG, C.DEN, *The sea-grasses of Brazil*. *Acta Bot. Neerl.* 21 (1972) 512-516, 3 fig.
Very little is known; 5 spp. occur (key given): *Halodule* with 3, one new, and *Halophila* with 2, *H. decipiens*, also known from Malesia, among them.
- *The dynamic aspect in the ecology of sea-grass communities*. *Yjalassia Jugoslavica* 7 (1973) 101-112, 8 fig.
Observations and some experiments with *Posidonia*, *Amphibolis*, *Zostera*, *Thalassia*, and *Phyllospadix*.
- *Blyxa quadricostata nov.sp., a new Hydrocharitaceae from Thailand*. *Blumea* 21 (1973) 185-187, 1 fig.
- HATAKEYAMA, I. c.s. *A list of plants in the Botanical Garden of Kyoto University and some ecological data*. *Mem. Fac. Sci. Kyoto Univ. Series B Biol.* 6 (1973) 91-148 tabs.
- HAWKES, J.G. (ed.) *Solanaceae*. Newsletter no. 1 (May 1974) 76 pp.
Largely a digest of literature and work in progress.
- * HEALY, A.J. *Identification of weeds and clovers*. Edit. Mus. Serv. Ltd. Wellington (1970) 191 pp., illust.
Keys and descriptions; makes good impression.
- *Weedy St. John's worts (Hypericum spp.) in New Zealand (Guttif.)* *Proc. 25th New Zeal. Weed & Pest Control Conf.* (1972) 180-190, 5 fig.
- HEDBERG, O. *Evolution of the Afroalpine flora*. *Biotropica* 2 (1970) 16-23.
Isolation of the high East African mountains is of long standing. Dispersal apparatus analysed for the species in categories. Long-distance dispersal seems most probable. Pre-adaptation discussed.
- * HEGNAUER, R. *Chemotaxonomie der Pflanzen* 6 (1973) — Reviewed on page 2213.

- HENDERSON, R.J.F. *Crassocephalum crepidioides* (Benth.) S. Moore in Australia (Comp.) Proc. R. Soc. Queensl. 84 (1973) 55-60, 2 fig., 1 pl., 1 tab.
Only the tetraploid is present; localities mapped.
- HENTY, E.E. & G.H. PRITCHARD, *Weeds of New Guinea and their control*. Div. of Bot. Dept. of For., Lae, Papua New Guinea; Bot. Bull. no. 7 (1973) 1-195, illust.
An extremely useful, well-illustrated and full guide to 135 common weeds in New Guinea, each occupying one page with a drawing, brief description, ecology and indications for herbicide control. There is an excellent introduction, glossary, tabulation of first records, susceptibility table for herbicides, etc.
- HENWOOD, K. *A structural model of forces in buttressed tropical rain forest trees*. Biotropica 5 (1973) 83-93, 6 fig., 4 tab.
Engineering analysis; buttressed roots are effective as structural members supporting large trees on substrates that offer poor anchorage. Develop especially on windward sides. Can be explained by knowledge of wind force, direction, and eccentric loadings. — What about many buttressed substage trees in tropical lowland forest where there is no question of wind forces? And the fact that certain genera have mostly and others have never buttresses? — v. St.
- HERKLOTS, G.A.C. *Jasminum maingayi* C.B. Clarke (Oleac.) J.R. Hort. Soc. 99 (1974) 215-216, 1 fig.
A Malayan species in greenhouse.
- HIEPKO, P. *Die Gattungsabgrenzung bei den Opiliaceae*. Ber. Deut. Bot. Ges. 84 (1971) 661-663.
Urobotrya re-established; 4 new comb. for partly Indo-Chinese spp. formerly under Lepionurus.
- HOLTUM, R.E. *A new bamboo from Mt. Kinabalu*. Gard. Bull. Sing. 26 (1973) 211.
Racemobambos tessellata n.sp.
- HOO GIN & CHANG-JIANG TSENG, *On the Chinese species of Panax* Linn. (Aral.) Act. Phytotax. Sin. 11 (1973) 431-438.
In Chinese.
- HOOGLAND, R.D. *New combinations in Hibbertia* (Dillen.) Kew Bull. 29 (1974) 155-156.
4 new comb. of Australian spp.
- HOPLEY, D. *Geomorphic evidence for climatic change in the late Quaternary of Northeast Queensland, Australia*. J. Trop. Geogr. 36 (1973) 20-30.

- *HORI KAWA, Y. *Atlas of the Japanese flora* (1972) — Reviewed on page 2214.
- HSIEH, CHANG-FU & TSENG-CHIEN HUANG, *The Acanthaceae plants of Taiwan*. *Taiwania* 19 (1974) 19-57, 42 fig., 8 maps. 34 spp. of 20 genera keyed out. Elaborate studies of anatomy, pollen, seeds; no descr., references or distr.
- HSU, CHIEN-CHANG, *Some noteworthy plants found in Taiwan*. *Taiwania* 18 (1973) 62-72, 4 pl.
- HSÜ JEN, JUN-RONG TAO & XIANG-JUN SUN, *On the discovery of a Quercus semicarpifolia bed in Mount Shisha Pangma and its significance in botany and geology* (Fagac.) *Act. Bot. Sin.* 15 (1973) 119-125, 1 fig., 4 pl. Pliocene fossils identified with living species; altitude since then uplifted for 3000 m.
- HSU YIN & GUANG-JIN FAN, *A new species of Lycoris* (Amaryll.) *Act. Phytotax. Sin.* 12 (1974) 299-301, 1 pl.
- *HU, S. Y. *A preliminary enumeration of the vascular plants of Hong Kong and the New Territories*. Board of Studies in Biology, Chinese Univ. Hong Kong (1972) ii + 100 pp.
- *The Orchidaceae of China. III. An alphabetic enumeration of the genera and species*. *Quart. J. Taiwan Mus.* 25 (1972) 41-67, 3 fig. List; 1 new var.
- *Ditto. IV.* *Quart. J. Taiwan Mus.* 25 (1972) 199-230, 9 fig. Species listed, some new.
- *Ditto. V.* *Quart. J. Taiwan Mus.* 26 (1973) 131-165, fig. 10-12. Enumeration.
- *Ditto. VI.* *Quart. J. Taiwan Mus.* 26 (1973) 373-406, 2 fig. Alphabetical from *Dendrochilum* to *Grammatophyllum*.
- HUANG, TSENG-CHIENG, *A revision of Formosan Impatiens* (Bals.) *Taiwania* 18 (1973) 49-54, 3 pl. Key to *I. devolii*, *tayemonii* and *uniflora*; descr.; distr.
- HÜBER, H. *Apocynaceae*. *Revised Flora of Ceylon* 1 (1973) 1-27. Keys; descr.; no novelties.
- *Periplocaceae; Asclepiadaceae*. *Revised Flora of Ceylon* 1 (1973) 28-57. Keys; descr.; *Periplocac.* kept apart from *Asclep.*; some new comb.

HUMBLES, J.E. *Observations on the genus Sigesbeckia L.* (Comp.) *Ciencia y Naturaleza* 13 (1972) 2-19, 8 fig., 3 maps. Key to 9 spp., each with descr. & coll.; chromosome counts; medicinal uses. Only *S. orientalis L.* in Asia and Pacific area.

HUNT, D.R. *Rhododendron sidereum* (Eric.) Curtis *Bot. Mag.* n.s. 179 (1973) tab. 638.
SE. Asian sp.

----- *Berberis mucrifolia* (Berber.) Curtis *Bot. Mag.* n.s. 179 (1973) tab. 643.
From Nepal.

----- *Rhododendron wrightianum* (Eric.) Curtis *Bot. Mag.* n.s. 179 (1973) tab. 653.
From New Guinea.

*HUNT, P.F. *Orchidaceae.* (1973) 144 pp., 40 col.pl., folio, full vellum, gilt edges. £ 160.-.
According to the Catalogue of Wheldon & Wesley 131, this volume forms a general introduction to Orchidaceae to which also 7 plates belong, the others depicting particular species. Drawings are by M.A. Grierson. Further volumes dealing with the family on a regional basis are contemplated. Edition limited to 600 numbered and signed copies. Purchasers may have their name inscribed in their copy if they wish.

HUYNH, KIM-LANG, *La morphologie microscopique de la feuille et la taxonomie du genre Pandanus. I. Aperçu général sur les caractères micromorphologiques de la feuille du genre Pandanus et leur valeur taxonomique.* *Bot. Jahrb.* 94 (1974) 190-256, 10 pl.
Epiderm and stomata structure and other anatomic characters of leaf.

HYLAND, B.P.M. & C.G.G.J. VAN STEENIS, *The generic identity of Xanthostemon brachyandrus C.T. White: Lindsayomyrtus novum genus* (Myrtac.) *Blumea* 21 (1973) 189-192, 1 fig. *Metrosideros nigroviridis* reduced to the new genus.

ICONOGRAPHIA CORMOPHYTORUM SINICORUM Vol. 18, 2 (1972) —
Reviewed on page 2216.

INAMDAR, J.A. & R.C. PATEL, *Structure and development of sclereids and stomata in Ipomoea quamoclit Linn.* (Convolv.) *Ceyl. J. Sc., Biol.* 9 (1971) 64-74, 5 fig., 1 pl.

*INDEX HERBARIORUM. I. *The Herbaria of the World.* 6th ed. (1974) — Reviewed on page 2388.

- IUCN, *Flora and Fauna conservation*. In UNESCO, Natural resources of humid tropical Asia (1974) 395-413.
The ecological setting; Political and social aspects; Attitudes to conservation; Population pressure; Destruction of forests; Lack of a clear policy; Lack of popular support; Future problems and needs; List of national parks and reserves; List of endangered animal species, annotated; List of agencies; Bibliography. A well-balanced, courteous but frank assessment of the situation.
- JACKES, B.R. *The genus Coleanthera* (Epacr.) Austr. Plants 7 (1973) 190-191, 1 fig.
Key to 3 spp. of W. Australia.
- JACKSON, G. *Cryptogeal germination and other seedling adaptations to the burning of vegetation in savanna regions: the origin of the pyrophytic habit*. New Phytol. 73 (1974) 771-780, 6 fig.
During germination the plumule is thrust into the soil to protect it from fire; this occurs in *Combretum* spp. but also in *Guiera* and *Quisqualis*, *Butyrospermum*, *Gardenia*, *Lophira*, *Pterocarpus*, *Piliostigma*, all in Africa.
- JACOBS, M. *Flora-projecten als intellectuele uitdaging*. Vakbl. Biol. 53 (1973) 252-255.
Taxonomy as an alpha-discipline; social significance; material, documentation; monography; (un)even progress; time and place of a Flora. Popular; in Dutch.
- *De Flora Malesiana en haar intellectuele bekoring*. Vakbl. Biol. 53 (1973) 287-289.
Appraisal and attraction of Fl. Mal. Sequel to the former.
- *Botanical panorama of the Malesian Archipelago (vascular plants)*. In UNESCO, Natural resources of humid tropical Asia (1974) 263-294, 10 fig.
A reprint of this paper was sent along with Fl. Mal. Bull. no. 27, so that readers form their own impression.
- JAFRI, S.M.H. *Juncaginaceae*. Flora West Pakistan no. 48 (1973) 1-5, 1 map, 1 fig.
- *Avicenniaceae*. Flora West Pakistan no. 49 (1973) 1-4, 1 map, 1 fig.
- *Podophyllaceae*. Flora West Pakistan no. 57 (1974) 1-4, 1 map, 1 fig.
Formerly in *Berberidaceae*.
- *Leonticaceae*. Flora West Pakistan no. 58 (1974) 1-5, 1 fig., 1 map. — Formerly in *Berberidaceae*.

- *Lardizabalaceae*. Flora West Pakistan no. 60 (1974) 1-4, 1 fig., 1 map.
- & M.QAISER, *Papaveraceae*. Flora West Pakistan no. 61 (1974) 1-32, 6 fig., 1 map.
- JAIN, S.K. & D.DAS, *Notes on the nomenclature of some grasses*. Indian For. 99 (1973) 570-578.
List including some new comb. of infraspecific rank.
- JANSEN, W.T. & P.BAAS, *Comparative leaf anatomy of Kokoona and Lophopetalum* (Celastr.) Blumea 21 (1973) 153-178, 24 fig., 2 tab., 3 pl.
- JARMAN, S.J. *A new species of Cyathodes from Tasmania* (Epacr.) Pap. & Proc. R. Soc. Tasm. 107 (1974) 53-55, 1 fig.
- JAVEID, G.N. *Salicaceae of the Kashmir Valley*. Indian For. 98 (1972) 649-654.
Keys to genera and 2 dozen spp.; distr.
- *New records of flowering plants for the Himalaya. I*. Indian For. 99 (1973) 628-631.
Mostly introduction: Papaver; Crucif.; Umbell.
- *A new Dianthus from Kashmir, Dianthus minimus sp. nov.* (Caryoph.) Curr. Sci. 42 (1973) 692-693, 1 fig.
- JEANPLONG, J. *Etude de la végétation des mauvaises herbes du Nord-Viêt-Nam*. Bot. Közlem. Budapest 60 (1973) 167-175.
Lists of weeds of farming lands, rice fields and marshy places and their abundance.
- JEFFREY, C. *Olearia lacunosa; Olearia ilicifolia* (Comp.) Curtis Bot. Mag. n.s. 179 (1973) tab. 645; tab. 654.
From New Zealand.
- JOHANSSON, D. *Ecology of vascular epiphytes in west African rain forest*. Act. Phytogeograph. Suec. 59 (1974) 136 pp.
The ecology of 153 spp. of vascular epiphytes (101 orchids, 39 pteridophytes and 13 others) in the Nimba Mts in Liberia is described. In high forest with the canopy 30 m or more, 50.4% of the trees (phorophytes) 10 m or higher carried epiphytes, compared to 14.8% for the phorophytes in regenerating forest. The ratio between fern and orchid species was 1:3 at 500-700 m alt. and 1:1 at 1000-1300 m. Ten different epiphyte communities are recognized. Certain spp. of phorophytes generally carry an abundance of epiphytes, while others do not. Colonization by epiphytes begins late in the life of the phorophyte. Environmental influences are discussed. Observations and experiments concerning water economy, microclimate, substrate properties and light intensities are presented.

- JOHNSON, L.A.S. & D.F. BLAXELL, *New taxa and combinations in Eucalyptus. II* (Myrtac.) *Contr.N.S.W.Nat.Herb.* 4 (1973) 379-383.
- & ----- *Ditto. III.* *Contr.N.S.W.Nat.Herb.* 4 (1973) 453-456.
- & D.F. CUTLER, *Empodisma: a new genus of Australasian Restionaceae.* *Kew Bull.* 28 (1973) 381-385, 1 fig., 1 tab.
Split off from *Calorophus*; 2 spp.
- & O.D. EVANS, *Cyperus brevifolius and an allied species in Eastern Australia* (Cyper.) *Contr.N.S.W.Nat.Herb.* 4 (1973) 378.
Key; 1 new name.
- * JOHRI, B.M. & S.P. BHATNAGAR, *Loranthaceae* (1972) — Reviewed on page 2392.
- JOLIVET, P. *Les plantes myrmécophiles du sud-est Asiatique.* *Cah.du Pacif.* no. 17 (Dec. 1973) 41-69, 3 pl., 11 fig.
Survey of various aspects.
- JONES, D.L. *Cultivation of the genus Diuris* (Orch.) *Austr. Plants* 7 (1973) 57-61, 2 col.phot.
- JONG, KWITON, B.C. STONE & E. SOEPADMO, *Malaysian tropical forest: an underexploited genetic reservoir of edible-fruit tree species.* *Proc.Symp.Biol.Res. & Nat.Development, Kuala Lumpur* (1973) 113-121, 5 tab.
Including notes on *Citrus*, *Nephelium* and *Garcinia*; list of potentials.
- KALKMAN, C. *The genus Rosa in Malesia* (Rosac.) *Blumea* 21 (1973) 281-291, 2 fig.
Revision; key to 7 spp.; some reductions.
- *The Malesian species of the subfamily Maloideae* (Rosac.) *Blumea* 21 (1973) 413-442, 4 fig.
Important precursor for *Fl.Mal.* Key to the genera; reduction of *Stranvaesia* to *Photinia*; recognition of *Micromeles*; keys to species; several new comb. and reductions.
- KANIS, A. *Further notes on the Amaranthaceae in Papuasias.* *Contr.Herb.Austr.* no. 7 (1974) 7-13.
Supplementary data; *Alternanthera manillensis* Kanis is reduced to *A. bettrichiana*. *Amaranthus cruentus* regarded as a good species; *A. viridis* new record.
- KAO, MUH-TSUEN & CH. E. DEVOL, *The Valerianaceae of Taiwan.* *Taiwania* 18 (1973) 146-159, 8 pl.
Keys; descr.; *Patrinia*, *Triplostegia*, *Valeriana*.

KARG, A.T. *Hunt Institute collection of biographical sketches relating to Australian botany*. Taxon 23 (1974) 613-618. List of 471 botanists and collectors associated with Australian botany in the late 18th and 19th century of whom by Mrs. L. Hooper and Mrs. R. Roberts of the A. Basser Library of the Australian Academy of Sciences at Canberra is made a biography. Manuscript at Canberra, copies in the Hunt Library and at Kew.

It is remarkable to miss the names of most important botanists, such as R. Brown, J. D. Hooker and G. Bentham. It is not made clear why they are hors de concours.

* KARTAWINATA, K. & R. ATMAWIDJAJA (ed.) *Coordinated study of lowland forests of Indonesia. Papers from a symposium* (1973) — Reviewed on page 2392.

KATAYAMA, T.C. *Distributions and some morphological characters of the Wild Rice in the Ganga Plains. Part III*. Mem. Fac. Agric. Kagoshima Univ. 9, no. 18 (1973) 1-27, 4 fig. (1 map), 31 phot. Habitats.

-----, T. AKIHAMA & S.M.P. WELIWITA, *Distribution and some morphological characters of the Wild Rice in Ceylon*. Prel. Rep. Tottori Univ. Sci. Surv. 1971, vol. 1 (1972) 60-64, 1 map.

Oryza sativa var. *spontanea* Roschev.; localities.

----- & T. KURODA, *Distributions and some morphological characters of the Wild Rice in the Ganga Plains. Part II*. Prel. Rep. Tottori Univ. Sci. Surv. 1971, vol. 2 (1974) 19-70, 18 fig., 15 tab.

Variation and hybrids.

-----, T. WATABE & T. KURODA, *Ditto. Part I*. Prel. Rep. Tottori Univ. Sci. Surv. 1971, vol. 1 (1972) 1-47, 14 fig., 14 tab. *Oryza perennis* Moench. and *O. sativa* var. *spontanea* in NE. India.

KENG, H. *On the family Phyllocladaceae*. Taiwania 18 (1973) 142-145, 1 map.

Because of unique phylloclades raised to family rank from Podocarpaceae. This was already done by Core, however; see Willis, Dict. ed. 7.

----- *Annotated list of seed plants of Singapore. I*. Gard. Bull. Sing. 26 (1973) 233-237.

A start of a checklist of Singapore plants, wild and cultivated, with keys to genera; this instalment covers 7 families of gymnosperms; no descr. of spp. but sometimes short annotations.

- *Ditto*. II. Gard.Bull.Sing. 27 (1974) 67-83.
Magnol.-Nymph. Genera keyed out; species enumerated.
- & E.A.HEASLETT, *The Xylopia malayana fruit; significance of its dehiscence* (Annon.) Gard.Bull.Sing. 26 (1973) 223-225, 1 fig., 1 pl.
- KERR, A.D. *The genus Pteroceras* (Orch.) Amer.Orch.Soc.Bull. 43 (1974) 338-339, 2 fig.
Discussion of some species of Indo-China.
- KHAN, M. & J.A.BULLOCK, *Conservation and the Malayan Nature Journal*. Mal.Nat.J. 25 (1973) 142-160.
Introduction and bibliography.
- KHIN KHIN THI, *The Burmese Caesalpiniaceae (in part)*. Union of Burma J. of Life Sci. 4 (1971) 373-417, 47 fig.
47 spp. of 14 genera; key to spp.; descr.
- KIMURA, A. *Salicis nova species ex regione Okutonensi in Japonia* (Salic.) J.Jap.Bot. 48 (1973) 321-326, 1 fig.
One new species.
- KITAGAWA, M. *Notulae fractae ob floram Asiae orientalis (30)*. J.Jap.Bot. 48 (1973) 235-237.
Angelica, Papaver.
- KITAMURA, S. *Short reports of Japanese plants*. Act.Phytotax. Geobot. 26 (1974) 1-15.
Some new infraspecific names.
- *New Cirsia from Nepal*. Act.Phytotax.Geobot. 26 (1974) 16-17.
2 new spp.
- *----- & G.MURATA, *Coloured illustrations of woody plants of Japan*. Osaka, Hoikusha Publ.Co. (1973) 402 pp., 72 pl., illust.
Text in Japanese.
- KLOPPER, K. *Florale Morphogenese und Taxonomie der Saxifragaceae sensu lato*. Fedde, Repert. 84 (1973) 475-516.
Concludes a division of two orders: Saxifragales in Saxifragaceae (with 3 subfam. Astilboideae, Saxifragoideae, Heucheroideae), Francoaceae, Grossulariaceae, and Cunoniales to which should be assigned Philadelphaceae (subfam. Hydrangoideae, Kirengeshomoideae, Philadelphoideae) and Escalloniaceae. The systematical place of *Itea* and *Chrysosplenium* is still doubtful; *Parnassia* and *Brexia* do not belong to either order.
- KLOTZ, G. *Neue oder kritische Cotoneaster-Arten. VI* (Rosac.) Wiss.Z.Jena Univ., M.-N.Reihe 21 (1972) 969-977, 2 Abb.
Chinese species, several new.

- *Neue oder kritische Cotoneaster-Arten. VII* (Rosac.)
Wiss.Z.Jena Univ.,M.-N.Reihe 21 (1972) 979-1021, 2 Abb.
Sect. *Acutifolia* revised; several new spp. from China.
- KO KO LAY, *The fibre plants of Burma*. Union of Burma J. of
Life Sci. 3 (1970) 191-196.
51 spp. enumerated; annotated.
- KOCHUMMEN, K.M. *Lesser known timber trees of Malaysia*. Proc.
Symp.Biol.Res.& Nat.Dev. (1973) 123-129, tab.
Names listed.
- & T.C.WHITMORE, *Notes on the systematy of Malayan
Phanerogams. XVIII-XXII*. Gard.Bull.Sing. 26 (1973) 269-
287.
Various important observations for validating new names
in For.Fl.Malaya 2. In Guttiferae (new spp. in Calo-
phyllum, Mesua and Garcinia), a new Barringtonia, a new
simple-leaved Crudia (Leg.); 3 new spp. of Heliciopsis;
a new name in Strombosia.
- KONDO, K. *The chromosome number of Nepenthes x mixta* (Nepenth.)
J.Jap.Bot. 48 (1973) 189-190, 1 fig.
- KOSTERMANS, A.J.G.H. *A synopsis of Alseodaphne Nees* (Laur.)
Candollea 28 (1973) 93-136, 3 pl.
50 spp., of which 21 new; 5 new comb.
- *Cinnadenia Kosterm., genus novum Lauracearum*. Adansonia
ser.II, 13 (1973) 223-227, 2 fig.
New comb.; monotypic genus.
- *A forgotten Ceylonese Cinnamon-tree (Cinnamomum capparu-
coronde Bl.)* (Laur.) Ceyl.J.Sc.,Biol. 10 (1973) 119-121.
A forgotten, neglected species, refound in the field.
- *Some new taxa*. Bot.Tidsskr. 68 (1973) 317-323, 3 fig.
Xylosterculia Kosterm., gen.nov. (Sterc.) based on 2
S.American spp. of Sterculia; *Temmodaphne* Kosterm., gen.
nov., *T. thailandica* sp.nov. (Laur.) from Thailand;
Parinari euadenia Kosterm., sp.nov. (Chrysob.) from
Thailand.
- *Nouveautés pour la flore indochinoise (Guttiferae,
Sterculiaceae, Lauraceae)*. Adansonia ser.II, 13 (1973)
335.
- KOYAMA, T. *New Cyperaceae from Nepal and adjoining Tibet*. Bot.
Mag.Tokyo 86 (1973) 275-283, 4 fig.
New spp. in *Carex*, *Kobresia*, and *Scirpus*.
- *Additional notes on Ceylonese Cyperaceae*. Bull.Nat.Sci.
Mus.Tokyo 17 (1974) 65-73, 3 fig.
New spp. in *Eleocharis* and *Scleria*; some vars.; records.

- *Four new species of Smilax (Smilacaceae) from South-eastern Asia*. Brittonia 26 (1974) 133-138, 2 fig., 1 tab.
All from continental SE. Asia.
- KRASNOBOROV, I.M. *Mannagettaea hummelii* H. Smith (Orobanchaceae) *New species in the Flora of the U.S.S.R.* Bot. Zhurnal 59 (1974) 1207-1209, 1 fig.
- KRUKOFF, B.A. & R.C. BARNEBY, *Notes on the species of Erythrina VII (Legum.)* Phytologia 27 (1973) 108-141.
Notes on 107 spp. enumerated.
- KÜCHLER, A.W. *Problems in classifying and mapping vegetation for ecological regionalization*. Ecology 53 (1973) 512-523, 2 fig.
General considerations to find the right criteria for mapping a region in the most useful manner.
- KURATA, S. *Nepenthes from Borneo, Singapore and Sumatra (Nepenth.)* Gard. Bull. Sing. 26 (1973) 227-232, 1 fig., 2 pl.
13 spp. listed and annotated, 2 new spp. described, one from Borneo, one from Sumatra.
- KUVAJEV, W.B. *The genus Caryopteris Bunge in the U.S.S.R. (Verben.)* Bull. Mosc. Soc. Nat., Biol. Ser. 79 (1974) 129-132, 1 map.
Localities of *C. mongholica* Bunge.
- KWEI, YAO-LIN & YU-SHI HU, *Epidermal feature of the leaves of Taxus in relation to taxonomy*. Act. Phytotax. Sin. 12 (1974) 329-334.
In Chinese.
- LAMONT, B. *The ecology of the Australian Proteaceae with implications for their cultivation*. Austr. Plants 7 (1973) 47-56, 5 col. phot., 2 tab.
- LANDER, N.S. & L.A.S. JOHNSON, *A new Australian species of Maytenus (Celastr.)* Contr. N.S.W. Nat. Herb. 4 (1973) 373-377, 1 fig., 1 map.
M. silvestris n.sp.; descr.; key.
- LANDGRAF, L.K. *Mauna Kea and Mauna Loa Silversword: alive and perpetuating*. Bull. Pac. Trop. Bot. Gard. 3 (1973) 64-66, 5 fig.
Argyroxiphium sandwicense and *A. kauense* (Comp.).
- LARSEN, K. *Studies in the genus Globba in Thailand (Zing.)* Notes R. Bot. Gard. Edinb. 31 (1972) 229-241, 5 fig.
New spp.: *G. aphanantha*, *G. laeta*, *G. nuda*, *G. obscura*; *Geostachys densiflora* is renamed *Globba kerrii*. Chromosome numbers given of 13 spp., vouchers indicated.

- *Studies in Zingiberaceae. VI.* Bot.Tidsskr. 68 (1973) 157-159, 2 fig.
2 new spp. of *Caulokaempferia* sect. *Caulokaempferia* from Thailand.
- *A new species of Orchidantha (Labiaceae) from Vietnam.* *Adansonia* ser. 2, 13 (1973) 481-482, 1 fig.
- & S.S.LARSEN, *The genus Bauhinia in Thailand (Legum.)* Nat.Hist.Bull.Siam Soc. 25 (1973) 1-22.
- LATZ, P.K. *Central Australian species of Nicotiana (Solan.)* Austr.Plants 7 (1974) 280-283, 1 pl.
Wild tobacco or pituri; aboriginal use; briefly commented list of some species.
- LAUENER, L.A. *Aconitum of the Himalaya. II (Ranunc.)* Notes R. Bot.Gard.Edinb. 32 (1973) 411-414, 1 fig.
1 new sp. and other records.
- LAZARIDES, M. *A revision of Australian Chlorideae (Gram.)* Austr.J.Bot.(Suppl.) 5 (1972) 1-51, illust.
- LEBLER, B.A. *Boronias of South-eastern Queensland (Rutac.)* Queensl.Agric.J., Advis.Leafl. no. 1145 (1972) 2-8, 6 fig.
8 spp.; descr.
- *A long-lost Boronia (Rutac.)* Queensl.Agric.J., Advis.Leafl. no. 1176 (1972) 1-4, 1 fig.
B. keysii Domin.
- *Native Hibiscus (Malv.)* Queensl.Agric.J., Advis.Leafl. no. 1184 (1973) 1-8, 3 fig.
Notes on a few species.
- *Wombat berry and scrambling lily (Liliac.)* Queensl.Agric.J., Advis.Leafl. no. 1195 (1973) 1-4, 2 fig.
Descr. of *Eustrephus latifolius* and *Geitonoplesium cymosum*.
- *The heaths of South-eastern Queensland.* Queensl.Agric.J., Advis.Leafl. no. 1199 (1973) 1-8, 5 fig.
On *Epacris* spp. (*Epacrid.*)
- LEE, A.T. *A new genus of Papilionaceae and related Australian genera.* Contr.N.S.W.Nat.Herb. 4 (1973) 412-430, 29 fig.
1 map.
A new genus from the *Eremaea*; in allied genera (to which a key is offered) also some n.sp. and new comb.
- LEENHOUTS, P.W. *A revision of Crossonephelis (Sapind.)* Blumea 21 (1973) 91-103.
Key to 8 spp., 6 new comb.; descr.; distr.; index.

- *A new species of Dimocarpus from Australia* (Sapind.)
Blumea 21 (1973) 377-380, 1 fig., 1 map.
- LEGRIS, P. *Vegetation and floristic composition of humid tropical continental Asia*. In UNESCO, Natural resources of humid tropical Asia (1974) 217-238, 1 fig.
Concise account of vegetation types with their main species in relation to various drought patterns and altitude, on the Indo-Chinese and Indian subcontinents. Plant-geographical patterns are indicated based on figures perhaps too easily accepted at face value. Floras are listed, without comment on their merit. Gaps in our knowledge are hinted at, but not specified. Bibliography of vegetation maps, with brief annotations.
- LEWITZ, S. & B. ROLLET, *Lexique des noms d'arbres et d'arbustes du Cambodge*. Bull. Ecole Fr. Extr.-or. 60 (1973) 117-162.
- LI, HSI-WEN, *Some changes of botanical names in Chinese Labiatae*. Act. Phytotax. Sin. 12 (1974) 213-234, 1 pl.
Calamintha and Satureia under Clinopodium; several new spp.; key to Mentha (in Chinese); new comb. in Mosla; Orthosiphon aristatus transferred to Clerodendranthus spicatus (Thunb.) C.Y. Wu (sic!); key in Chinese to this generic name and Orthosiphon.
- LING YONG & YI-LING CHEN, *Notulae de genere Erigeron L. generibusque affinis Florae Sinicae*. Act. Phytotax. Sin. 11 (1973) 399-430, pl. 55-57).
In Chinese. Key to 33 spp. of Erigeron (Comp.), a few small genera.
- LIU, TANG-SHUI, *The genus Abies. IV* (Conif.) Quart. J. Taiwan Mus. 25 (1972) 231-295, 10 pl., 10 maps, 10 prof., 14 tab.
- *Ditto. V*. Quart. J. Taiwan Mus. 26 (1973) 407-442, 3 prof., 3 maps, 3 pl., 2 tab.
- *----- *A monograph of the genus Abies* (1973) — Reviewed on page 2217.
- & HORNG-JYE SU, *New additions to the Orchidaceous Flora of Taiwan, China (1)*. Quart. J. Taiwan Mus. 25 (1972) 149-155, 5 fig.
Notes on 2 spp.
- & ----- *Ditto (2)*. Quart. J. Taiwan Mus. 26 (1973) 443-447, 2 fig.
2 Goodyera spp.; extra-Malesian.

- LOBREAU-CALLEN, D. *Le pollen des Icacinaceae: II. Observations en microscopie électronique, corrélations, conclusions (1)*. Pollen et Spores 15 (1973) 47-89, 10 pl., 1 tab., 2 schemes.
Keys to genera on p. 77.
- LONG, R.W. *A biosystematic approach to generic delimitation in Ruellia (Acanth.)* Taxon 22 (1973) 543-555, 11 fig.
There is no good ground to split the genus into various smaller genera as Nees and Bremekamp have done; but the generic concept is not correct as it contains more than one 'natural' group as Long suggested.
- LOWRY, J.B., D.W.LEE & B.C.STONE, *Effect of drought on Mount Kinabalu*. Mal.Nat.J. 26 (1973) 178-179, tab. I.
Dec.1972 to Apr.1973 exceptionally dry. Initiated fructification of Fungi at lower alt. and flowering of trees. Upper slopes suffered especially on shallow soil on rock faces, except the orchids. It is supposed that summit plants normally trap mist as additional water, which they now missed. In the note no mention is made of frost damage, which would likely have effect during drought.
- LYNCH, P.A. *A note on the taxonomy of Avicennia in New Zealand (Verben.)* TANE, J.Auckl.Univ.Field Club 19 (1973) 243-244.
Name should be *A. marina* var. *resinifera* (Forst.) Bakh.
- MCCREDIE, D.W. *Mount Kinabalu and development in peripheral districts in Sabah: a review of progress of the Sabah National Parks*. Proc.Symp.Biol.Res.& Nat.Dev. (1973) 159-162, 2 fig.
Copper exploitation on SW. flank of Mt. Kinabalu; visitors for hot springs and otherwise were in 1971 not less than 8572.
- MAESEN, L.J.G.VAN DER, *Cicer L., a monograph of the genus, with special reference to the Chickpea (Cicer arietinum L.), its ecology and cultivation (Legum.)* Meded.Landb. Wageningen 72-10 (1972) 342 pp., 37 graphs, 46 tab., 10 pl., 22 maps, 37 fig.
- MAHESHWARI, J.K. & R.S.PANDEY, *Parthenium weed in Bihar State (Comp.)* Curr.Sci. 42 (1973) 733.
P. hysterophorus first seen in Poona in 1951; introduced from America; present area described.
- MAJUMDAR, R.B. *Notes on Rajasthan Flora. III*. Bull.Bot.Soc. Beng. 25 (1971) 75-76.
8 new comb. proposed, in *Rostellularia* and *Haplanthus* (Acanth.) and *Digitaria* (Gram.).

- MARKGRAF-DANNENBERG, I. *Eine neue Festuca-Art aus China* (Gram.) Act.Bot.Ac.Sc.Hung. 19 (1973) 207-209, 2 Abb. From Kansu Prov.
- * MATERIALS FOR THE FLORA OF BHUTAN (1973) — Reviewed on page 2381.
- MATTHEW, K.M. *A bibliography of the botany of Sikkim*. Bull. Bot.Soc.Beng. 24 (1970) 57-59.
- MEIKLE, R.D. *Idesia polycarpa* (Flac.) Curtis Bot.Mag. n.s. 179 (1973) tab. 649. From Eastern Asia and Japan.
- *Notes on two Commicarpus species* (Nyctag.) Kew Bull. 29 (1974) 83-87, 2 fig. 1 sp. also in Pakistan.
- MENITSKY, G. *Conspectus specierum generis Quercus L. (subg. Quercus) Asiae orientalis* (Fagac.) Nov.Syst.Pl.Vasc. 10 (1973).
- *Notulae de genere Quercus L. Asiae orientalis* (Fagac.) Nov.Syst.Pl.Vasc. 11 (1974) 88-92. Listed records; no novelties; India, Pakistan, China, Tibet.
- MENZEL, M.Y. & D.W.MARTIN, *Cytotaxonomy of some Australian species of Hibiscus sect. Furcaria* (Malv.) Austr.J.Bot. 22 (1974) 141-156, 1 fig., 5 tab. All 8 allohexaploids; hybrids.
- MEIJER, W. *The genus Axinandra - Melastomataceae: A missing link in Myrtales?* Ceyl.J.Sc., Biol. 10 (1972) 72-74, 2 pl. Oldest living genera of Lythraceae, Melastomataceae, Myrtaceae and Rhizophoraceae are most closely related to Axinandra of Ceylon and Malesia.
- *Some taxonomic and nomenclatural notes on Vateria copallifera* (Retz.) Alston (Dipt.) Ceyl.J.Sc., Biol. 10 (1972) 76-79, 1 fig., 2 pl. *Vateria copalifera* might belong to *Vatica*.
- *Reflection from a short visit to Lampung Province, Sumatra, July 13-19, 1973*. BIOTROP/TF/74/110, Bogor, Indonesia, 14 pp (stencilled). Report on a brief survey in Lampung Prov., with a discussion on the land use, with suggestions to improve it and desiderata for national parks and conservation.
- * ----- *Field guide to trees in West Malesia*. (1974) 328 pp., map, 80 fig., 25 pl. (phot.). Offset, 8°. Aim to aid foresters, timber loggers, nature conservationists and students to become familiar with the per-

plexing diversity of trees. A concise elementary forest botany for recognition of genera and some species of larger sized, fairly common trees. Introductory chapters on field characters, collecting, growth rates, germination. Families treated in alphabetical order, sometimes keys (as in Dipt.). Key to mangrove species. Key to some 200 spp. of timber trees of 52 different families. Glossary and index. An attractive booklet for beginners.

- MOLDENKE, H.N. *Notes on new and noteworthy plants. LXVI.* Phytologia 28 (1974) 101-102.
Including a new variety of *Premna* from Ceylon and a new name for the Ceylonese *Premna* "corymbosa" (Verb.).
- *Ditto. LXIX.* Phytologia 28 (1974) 401-404.
A new variety and a form of 2 spp. of *Eriocaulon* from Ceylon (*Eriocaul.*).
- MOMIYAMA, Y. & H.HARA, *The genus Elaeagnus of Eastern Himalaya* (*Elaeagn.*) J.Jap.Bot. 48 (1973) 257-267, 4 fig.
Key to spp.; 3 new spp.: *E. infundibularis*, *tricholepis* and *kanaii*.
- MOORE Jr, H.E. *The major groups of Palms and their distribution.* Gentes Herb. 11 (1973) 27-140, 60 fig., phot. & maps, 4 tab.
A most important survey of the major system of palms; morphology; chromosomes; distribution.
- *Letter to D. Smith.* Principes 18 (1974) 63.
On the occurrence of hybrids in palms which seems very rare.
- MUELLER-DOMBOIS, D. & M.PERERA, *Ecological differentiation and soil fungal distribution in the montane grasslands of Ceylon.* Ceyl.J.Sc., Biol. 9 (1971) 1-41, 1 fig., 11 pl.
Discussion and some literature.
- MUKERJEE, S.K. & P.K.BHATTACHARYYA, *A new Cuscuta from Bengal* (Conv.) Bull.Bot.Soc.Beng. 24 (1970) 147-149, 1 fig., 1 pl.
C. sharmanum Mukerjee & Bhatt., sp.nov.
- MULLER, J. *Pollen morphology of the genus Crossonephelis* (Sapind.) Blumea 21 (1973) 105-117, 5 pl.
- NA SONGKHLA, B. *Proteaceae.* Thai For.Bull.(Bot.) no. 7 (1973) 49-66, 8 fig., 2 maps.
Key to 2 genera; key to 7 spp. of *Helicia*, 1 sp. of *Heliciopsis*; distr., ecol., vern.; index to coll.nos.

NACKEJIMA, C. *Preliminary notes on the noteworthy Orchidaceae from Formosa, Ryukyus, Bonin Islands and Southern Japan* (2). Biol. Mag. Okinawa 9 (1972) 34-45, fig. 6-11.
In Japanese. 30 records.

NAITHANI, Sd. H. B. *Psilotrichum* (Roxb.) Moq. - An overlooked record for Northern India (Amaranth.) Indian For. 100 (1974) 79-80, 2 fig.
P. ferrugineum (Roxb.) Moq.

NARAYANA, L. L. & DIGAMBER RAO, *Contributions to the floral anatomy of Linaceae. II.* Phytomorphology 21 (1971) 64-67, 1 fig.
Ctenolophon is a true Linaceae.

NARDI, J. C. DE, *A new species of Sporobolus from Eastern Australia* (Gram.) Contr. N.S.W. Nat. Herb. 4 (1973) 406-411, 1 map, 1 tab.
Allied to *S. elongatus*.

NAYAR, M. P. *Three new species of Poikilogyne from New Guinea* (Melast.) J. Jap. Bot. 48 (1973) 238-241, 1 fig.

----- *A review of the genus Creaghiella Stapf* (Melast.) Gard. Bull. Sing. 26 (1973) 259-261.
Key to 3 spp. (one a new comb. based on *Anerincleistus philippinensis* from Palawan).

----- *Two new Sonerila from Borneo* (Melast.) Reinwardtia 8 (1974) 515-517.
Both from Sabah.

*NEW HORIZONS / *Forestry in Papua New Guinea* (1973) — Reviewed on page 2219; add the year of publication.

NGUYEN TIEN BAN, *Critical notes on the genera Melodorum Lour. Mitrella Miq. and Rauwenhoffia Scheff. (Annonaceae Juss.)*. Bot. Zhurnal 59 (1974) 237-245, 2 fig.
Incl. 2 new spp. of *Melodorum* from Tonkin and Hainan resp., 2 new comb. in *Mitrella* (1 Mal. sp., 1 from Indo-China), one taken from *Unona*, the other from *Polyalthia*.

----- *On the taxonomy of the genus Goniothalamus (Bl.) Hook. f. & Thoms. I* (Annon.) Bot. Zhurnal URSS 59 (1974) 547-555, 4 fig.

----- *Ditto. II.* Bot. Zhurnal URSS 59 (1974) 660-672.
In Russian. No summary. 86 spp. briefly enumerated, with typification; 9 new varietal names.

----- *New species of the genus Cyathostemma Griff. from the Flora of North Vietnam* (Annon.) Bot. Zhurnal 59 (1974) 1157-1159, 1 fig.

- *De nonnullis speciebus generis Polyalthia Blume notulae* (Annon.) Nov.Syst.Pl.Vasc. 11 (1974) 182-191, 1 fig. Critical notes; 2 new spp. and some new var.; all from Indo-China.
- NGUYEN VAN THUAN, *Contribution à l'étude pollinique du genre Dunbaria* (Legum.-Pap.) Pollen et Spores 15 (1973) 363-384, 7 pl. phot.
- NOOTEBOOM, H.P. *Ailanthus fordii* Nooteboom, an endemic species of Hong Kong refound (Simaroub.) Mem.Hong Kong Nat. Hist.Soc. no. 9 (May 1974) 16-17. New records of this rare endemic.
- *OHASHI, H. *The Asiatic species of Desmodium and its allied genera* (Legum.) (1973) — Reviewed on page 2219.
- *Euchresteeae, a new tribe of the family Leguminosae.* J.Jap.Bot. 48 (1973) 225-234, 1 fig.
- *Studies in the genus Campylotropis. 1* (Legum.) J.Jap. Bot. 49 (1974) 40-46, 2 fig. Key to 2 spp. (one new from W. Central Burma).
- *Notes on Himalayan Hedysarum* (Legum.) J.Jap.Bot. 49 (1974) 161-167, 2 fig. Key to 4 spp. (2 new).
- *Corrections to my combinations in the genus Christia* (Legum.) J.Jap.Bot. 49 (1974) 167. In a former paper Dr. Ohashi had made some new comb. under the misspelled name Christa. This is here corrected.
- OHBA, H. *Notes on Himalayan Sedum (1)* (Crass.) J.Jap.Bot. 48 (1973) 327-331, 2 fig. One new sp., one new name.
- OHWI, J. & H.OHASHI, *Cynanchum yamanakae, a new species of Asclepiadaceae from Shikoku, Japan.* J.Jap.Bot. 48 (1973) 370-373, 2 fig.
- ORCHARD, A.E. *The Acaena ovina complex in New Zealand* (Rosac.) Rec.Auckl.Inst.Mus. 10 (1973) 97-107, 11 fig. Key to 2 spp. and 4 var. Hybrids are reported.
- *Zingiberaceae in New Zealand.* Rec.Auckl.Inst.Mus. 10 (1973) 109-117. 2 adventive spp. of Hedychium. Cultivated species listed of several genera.
- ORWIN, J. *Annotated bibliography on the ecology of New Zealand indigenous forest and scrub 1929-1970.* New Zeal.J.Bot. 12 (1974) 45-113. 416 items with very useful indices on sundry subjects.

- OTENG-YEBOAH, A.A. *Four new genera in Cyperaceae-Cyperoideae*. Notes R.Bot.Gard.Edinb. 33 (1974) 307-310.
On 4 spp. of *Scirpus* a new genus is based, viz. on *S. rufus* (Europe), *S. nevadensis* (N.America), *S. inanis* (S.Africa), and *S. junghuhnii* (Sumatra), on the strength of anatomical characters. One must have a napoleonic conviction for publishing such a daring inflation. Irrespective of my esteem of anatomical characters: God beware us for anatomy overriding taxonomy! — v.St.
- PANCHO, J.V. *Aquatic angiosperms of Laguna de Bay, Luzon*. Kalikasan, Philip.J.Biol. 1 (1972) 94-120, 3 fig., map. 24 genera and spp. representing 19 fam. of aquatic angiosperms; key to spp., local names, descr., ecol., econ. uses.
- PANIGRAHI, G. & R.PRASAD, *Contribution to the botany of Madhya Pradesh. IV. The families Euphorbiaceae and Urticaceae*. Proc.Nat.Ac.Sci.India Sect.B, 36 (1966) 553-564.
- & T.RAJAGOPAL, *Studies in the Flora of Allahabad. IV. The family Gramineae 1-2*. Proc.Nat.Ac.Sci.India Sect.B, 37 (1967) 1-50, 29 fig.
Species listed; key to genera.
- & A.N.SINGH, *Contribution to the botany of Madhya Pradesh. V. The family Leguminosae*. Proc.Nat.Ac.Sci.India Sect.B, 37 (1967) 77-104.
Species listed; chromosome numbers.
- * PARHAM, J.W. *Plants of the Fiji Islands. Revised edition*. Gov.Printer, Suva, Fiji (1972) xv + 462 + xxix pp., frontisp. col., port., text illust.
- * PARSONS, W.T. *Noxious weeds of Victoria*. Inkata Press, Melbourne/Sydney (1973) xi + 300 pp., 266 fig., 1 map, frontisp.
- * PATEL, R.I. *Forest flora of Gujarat State*. For.Dept.Gujarat State, Baroda (1971) ii + 381 pp., 3 tab.
- PATIL, R.B. & R.D'CRUZ, *A new species of Ischaemum Linn. from Kerala, India* (Gram.) J.Bomb.Nat.Hist.Soc. 70 (1973) 324-325, 1 pl.
- PAIJMANS, K. *Plant succession on Pago and Witori Volcanoes, New Britain*. Pac.Sci. 27 (1973) 260-268, 7 fig., 1 tab.
- PEDLEY, L. *Notes on Acacia, chiefly from Queensland. IV* (Legum.) Contr.Queensl.Herb. 15 (1974) 27 pp., 9 pl., 1 graph, 2 maps.
Several new spp., a new name and critical notes on other species.

- PHAM HOANG HO, *L'inventaire de la flore au Sud-Vietnam*. Pre-Congress Conf. in Indonesia. Symp. Planned utilization of the lowland trop. forests; Cipayung, Bogor, Aug. 1971 (1973) 1-3.
- PHENGKLAI, C. *Pinaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 1-4, 2 fig.
2 spp. in Thailand, *P. merkusii* and *P. kesiya*.
- *Cupressaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 5-6, 1 fig.
Calocedrus macrolepis Kurz.
- *Cephalotaxaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 7-8, 1 fig.
Cephalotaxus griffithii Hook. f.
- *Podocarpaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 9-19, 7 fig.
In Thailand *Dacrydium* and *Podocarpus* with 1 and 6 spp. resp.
- *Gnetaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 21-38, 6 fig., 3 maps.
Keys to 8 spp. and vars.; distr., ecol., vern. names; index to coll. numbers.
- PHILIPSON, W. R. *A revision of Harmsiopanax* (Aral.) Blumea 21 (1973) 81-86, 1 map.
Key to 3 spp., 1 new; descr.; distr.
- *Anakasia*, a new genus of *Araliaceae* from West New Guinea. Blumea 21 (1973) 87-89, 1 fig.
- PHILLIPS, S. M. *The genus Dinebra* Jacq. (Gram.) Kew Bull. 28 (1973) 411-418, 2 fig., 1 map.
3 spp. in this African-Indian genus.
- PHUNG TRUNG NGAN, *Natural products of the lowland tropical forests in the Republic of Vietnam*. Symp. Planned utilization of the lowland trop. forests, Cipayung, Bogor, Aug. 1971 (1973) 231-237.
- PHUPHATHANAPHONG, L. *Ulmaceae*. Thai For. Bull. (Bot.) no. 7 (1973) 39-48, 1 pl.
Holoptelea (1 sp.), *Ulmus* (1), *Gironniera* (2), *Aphananthe* (2), *Trema* (2 + 2 var.), *Celtis* (3); keys.
- PICKARD, J. *An annotated botanical bibliography of Lord Howe Island*. Contr. N.S.W. Nat. Herb. 4 (1973) 470-491.
- PO KYA & NAW CALISTA MIN, *Studies on some local Cinnamomum species* (Laur.) Union of Burma J. of Life Sci. 3 (1970) 197-204, 6 fig., 3 tab. — 5 spp. described.

- PRADHAN, U.CH. *Diplomeris hirsuta* (Lindl.) Lindl. - A survey (Orch.) Amer.Orch.Soc.Bull. 43 (1974) 525-528, 3 fig. Indian orchid; new var. proposed.
- *PRESTON, R.D. *The physical biology of plant cell walls* (1973) — Reviewed on page 2394.
- PRICE, G.C.R. *A review of the Philippine species of Paphiopedilum* (Orch.) Orch.Digest 37 (1973) 120-125, 7 pl. 11 spp., with key, synonymy, remarks.
- *Cultivated Mussaendas in the Philippines* (Rubiaceae). Kalikasan, Philip.J.Biol. 3 (1974) 37-55. Descr. and key for 15 taxa.
- *PURSEGLOVE, J.W. *Tropical Crops: Monocotyledons. Volumes 1 & 2.* John Wiley & Sons, New York (1972) 607 pp., 32 fig. 450 spp. treated; major treatments: rice 36 pp., maize 34, sugarcane 42, Sorghum 26, millet 10, coconut 39, banana 32, yams 20, ananas 15, sisal 15, oil palm 31; an indispensable work.
- PIJL, L.VAN DER, *Absciss-joints in the stem and leaves of tropical plants.* Proc.Kon.Ned.Ak.Wet.A'dam C 55 (1952) 574-586.
Function and structure of pulvini in *Leea*, *Chloranthus*, *Strobilanthes*, *Gnetum*, etc.; shedding of branches in *Agathis*. In a later paper (Indon.J.Nat.Sc. Jan.-June 1953, 11-25) it is shown how the way of shedding affects the shape of trees.
- *Classification of the leguminous fruits according to their ecological and morphological properties.* Proc. Kon.Ned.Ak.Wet.A'dam C 59 (1956) 301-313.
Ecology: pods for birds, bats, arboreal mammals, herbivores. Dispersal active, by wind, water, and exozoic. Morphology: sarcotesta, fleshy pods, dehiscence; interrelations.
- *The dispersal of plants by bats (chiropterochory).* Acta Bot.Neerl. 6 (1957) 291-315.
Survey of literature; list of plants described as dispersed by bats; characteristics of bat fruits (dull, smelly, large soft and tasty), position of the fruits; regional remarks.
- *On the arilloids of Nephelium, Euphoria, Litchi and Aesculus and the seeds of Sapindaceae in general.* Acta Bot.Neerl. 6 (1957) 618-641, 16 fig.
Morphological description of several species with comment.

- *Flowers free from the environment?* Blumea Suppl. 4 (1958) 32-38.
 Essay review to make good R. Good's alleged neglect of this relation in the latter's *Features of Evolution in the Flowering Plants*.
- *Ecological aspects of fruit evolution. A functional study of dispersal organs.* Proc. Kon. Ned. Ak. Wet. A'dam C 69 (1966) 597-640.
 Morphological aspects like sarcotesta, dehiscence, aril, imitative seeds, arilloids, are explained from the viewpoint of transference of function, breaking away from 'temperate-western superstition'. Comment on fruit classifications.
- *Het tropische gelaat van de plantkunde (i.e. the tropical face of botany).* Inaugural address, Nijmegen (1969) 20 pp.; in Dutch.
- *Functional considerations and observations on the flowers of some Labiatae.* Blumea 20 (1972) 93-103.
 Significance of the 2-lobed corolla. Pollination in various groups, especially Ocimoideae and Ajugoideae, temperate and tropical.
- RAO, A. R. & VIMALA ACHUTHAN, *A review of fossil palm remains from India.* The Palaeobotanist 20 (1973) 190-202, 4 tab.
- RAO, ROLLA S. & K. HEMADRI, *Blumea venkataramanii* Rolla Rao et Hemadri - *A new species of Asteraceae from Maharashtra State.* Curr. Sci. 42 (1973) 693-694, 6 fig.
- & ----- *The genus Hedyotis Linn. in Maharashtra State (Rubiaceae).* Indian For. 99 (1973) 372-379.
 Key to 12 spp.; distr. In all 12 new comb. are proposed for the Western Peninsular India plants which are at present known under the generic name Oldenlandia.
- RAYNAL, J. *Notes Cypérologiques: 19. Contribution à la classification de la sous-famille des Cyperoideae.* Adansonia ser. II, 13 (1973) 145-171, 8 fig.
- *Ditto: 20. Un Baumea néo-calédonien nouveau.* Adansonia ser. II, 13 (1973) 467-469, 1 pl.
- *Ditto: 21. Les Ficinia dans les herbiers anciens du Muséum de Paris.* Adansonia ser. II, 14 (1974) 199-214, 1 fig., 2 pl.
 Various critical notes on types in old herbaria (Poiret, Lamarck); list of Ficinia spp. (some new comb.).
- READ, R. W. *The ecology of the Palms.* Principes 18 (1974) 39-50.
 Variability; adaptation; resistance.

- *RICHARDS, P.W. *The life of the jungle* (1970) — Reviewed on page 2220.
- ROBINSON, H. & R.D. BRETTELL, *Tribal revisions in the Asteraceae. IX. The relationship of Ischnea*. *Phytologia* 26 (1973) 153-158, 2 fig.
Revision; key to 6 spp.; 1 new sp.
- RODMAN, J.E. *Systematics and evolution of the genus Cakile* (Crucif.) *Contr. Gray Herb.* no. 205 (1974) 3-146, 5 maps, 11 fig., 28 tab., 3 pl.
Revision; 7 spp., 1 new; incl. *C. edentula* from Australasia.
- ROGERS, D.J. & S.G. APPAN, *Manihot and Manihotoides (Euphorbiaceae). A computer-assisted study*. *Fl. Neotrop. Monogr.* no. 13 (1973) 272 pp., 124 fig., maps.
Monograph; keys to 98 spp. (and varieties). A new genus is erected for a dwarf shrub of Mexico differing merely by 1-flowered inflorescences, 3-foliolate leaves and leaves on brachyblastic branches. It is with pride announced that the computer-aided similarity-graph-cluster-analysis gave a high C-value. To us these three merely quantitative characters appear of low systematical value, at least by far not sufficient to erect a new genus. — v. St.
- & H.S. FLEMING, *A monograph of Manihot esculenta - with an explanation of the taximetric methods used* (Euph.) *Econ. Bot.* 27 (1973) 1-113, 22 pl., 24 fig.
- ROLLET, B. *La végétation du Cambodge*. *Rev. Bois Forêts Tropic.* no. 144 (1972) 3-15, no. 145 (1972) 23-38, no. 146 (1972) 3-20, some sketch maps, many fine phot.
In French. General remarks on physiography. Mangrove, Melaleuca, swamp forest (around the Grand Lac), pine (*P. merkusii*), dry dipterocarp, deciduous, evergreen lowland and hill, dwarf rain forests are discussed, with surface areas, floristic composition, tree diameters and densities, economic potential.
Air photography revealed a mosaic of vegetation patterns more or less influenced by man, for a long time and aided by fire. In the Cardamom and Elephant mountains much forest is still primary. The climax viewpoint has been taken. In the plains there is vigorous regeneration potential. Lagerstroemia forests are in a stage of rapid succession. Useful overview.
- ROSAIRO, R.A. DE, *Vegetation of humid tropical Asia*. In UNESCO, *Natural resources of humid tropical Asia* (1974) 179-195, 2 fig.
An account of vegetation classifications (those of Puri

1960 emended and of Fosberg 1958 in tabulated form; Holdridge discussed). Progress of quantitative vegetation analyses briefly sketched; that of forest inventory tabulated (W. New Guinea not mentioned; see Reviews).

- ROXBURGH, *Icones Roxburghianae or Drawings of Indian Plants. Fasc. VI. Bot. Surv. India, Calcutta (1973) 25 col. pl.*
- ROYEN, P. VAN, *Sertulum Papuanum 18. Two superfluous genera in the New Guinean flora. Bot. Notis. 126 (1973) 417-425, 2 fig., 1 tab.*
The New Guinea *Raoulia chiliastra* is reduced to *Gnaphalium*; *Dolianthus* is reduced to *Amaracarpus*; 2 new comb.
- *The genera Glomera and Glossorhyncha (Orch.) Folia Geobot. Phytotax. Praha 9 (1974) 77-85.*
Both genera are contrasted by descriptions; of both spp. are listed; some new comb.
- * RYAN, P. (ed.) *Encyclopaedia of Papua and New Guinea (1972) — Reviewed on page 2220.*
- SACHET, M.-H. & F. R. FOSBERG, *Remarks on Halophila (Hydroch.) Taxon 22 (1974) 439-443.*
The name *H. minor* re-established for *H. ovata*, and *H. hawaiiiana* anew recognized as species.
- SAGRADO, M. J. *Débardage par cable dans les régions montagneuses des Philippines. Rev. Bois Forêts Tropiq. no. 144 (1972) 67-71, 4 fig.*
Forest policy; extraction of logs from forest by cable on spar tree, in rugged terrain; well-illustrated.
- SAHNI, K. C. & S. S. R. BENNET, *Correct botanical name of Langsat. Indian For. 100 (1974) 202.*
Unfortunately authors overlooked Kostermans' paper in *Reinwardtia* 7 (1966) 247 where is shown that *Melia parasitica* Osb. is a *Dysoxylum*, according to re-examination of the type. Here also *Lansium domesticum* is keyed out from *L. aequum* (Jack) Miq.
- & ----- *A new species of Albizia from Orissa (Legum.-Mimos.) Indian For. 100 (1974) 371-372, 1 fig.*
Aff. A. odoratissima (L.f.) Bth.
- SALDANHA, C. J. *Schoenorchis latifolia C.E.C. Fischer newly transferred from Rhynchostylis (Orch.) J. Bomb. Nat. Hist. Soc. 70 (1973) 414-415, 1 pl. — New comb.*
- SATAKE, Y. *A new species of Eriocaulon from Nepal (Eriocaul.) J. Jap. Bot. 48 (1973) 314-317, 2 fig.*
- *A new species of Eriocaulon (Erioc.) J. Jap. Bot. 49 (1974) 180-183, 2 fig. — E. tutidae Satake, sp. nov.*

- *Eriocaulon of Thailand* (Eriocaul.) Act.Phytotax.Geobot. 26 (1974) 41-51, 13 fig.
8 taxa, incl. 4 new spp.
- *Three species of Eriocaulon from Laos and Thailand* (Eriocaul.) J.Jap.Bot. 49 (1974) 237-240, 4 fig.
1 new sp., 1 new var.; records.
- SAXENA, H.O. *Mitracarpus verticillatus* (Schum. & Thonn.) Vatke - A new record for Eastern India (Rubiaceae) J.Bomb.Nat. Hist.Soc. 70 (1973) 412-413.
Earlier reported from Madras and Kerala; introduced.
- SCHLECHTER, R. D.F. BLAXELL: *The status of Schlechter's specimens of Orchidaceae held at the National Herbarium of New South Wales. I. New Guinea.* Contr.N.S.W.Nat.Herb. 4 (1973) 457-469.
207 specimens from NW. Guinea; most are type numbers.
- SCHULZE, J. *Crinum thaianum* J.Schulze, a new aquatic species from Southeast Asia (Amaryllidaceae) Plant Life 38 (1972) 33-42, fig. 10-13, 1 tab.
A streambed species abundantly described, from Thailand.
- *SCHWEINFURTH, U. c.s. *Studies in the climatology of South Asia. A rainfall atlas of the Indo-Pakistan Subcontinent based on rainy days.* F.Steiner Verlag, Wiesbaden, Germany (1970) viii + 16 pp. + 14 col.maps. Format 45½ by 56 cm, in ringband. DM 86.
Scale 1:7,500,000. Twelve monthly maps, one annual map, one map of rainfall stations, with bibliography 1945-1969. Not seen.
- *Zur Pflanzengeographie der javanischen Bergwelt.* Erdkunde 28 (1974) 145-148, 1 map.
Commented review of Concise Plant-geography in Backer Bakhuizen, Flora of Java 2 (1965) (1)-(72).
- SEALY, J.R. *Gaultheria stapfiana* (Eric.) Curtis Bot.Mag. n.s. 179 (1973) tab. 651.
From SE. Asia.
- SEIDENFADEN, G. *Notes on the genus Cirrhopetalum Lindl. (Orch.)* Dansk Bot.Ark. 29 (1973) 1-260, 134 fig.
In so far misleading title in that the author maintains this taxon as a section under Bulbophyllum; in his opinion it does not deserve generic rank. The section occurs in all Old World tropics incl. the South Pacific. 214 taxa were described under Cirrhopetalum, to which must be added 20-30 descr. under Bulbophyllum. Of these 148 are maintained and species are keyed out under 5 sections. This means a large number of reductions. Only

one new species is described; 13 new comb. and 7 new names are given. A massive, most important monograph, of essential value to the Malesian area where very many species occur. Magnificent illustrations with details. The author examined many herbaria; examined specimens are cited; types are indicated. Congratulations with this big effort. — v.St.

- *Contributions to the Orchid Flora of Thailand*. V. Bot. Tidsskr. 68 (1973) 41-95, 42 fig., 3 pl.
Miscellaneous contributions; several new spp.; critical notes.
- SHAN, REN-HWA & YIN LI, *On the Chinese species of Bupleurum L.* (Umbell.) Act. Phytotax. Sin. 12 (1974) 261-294, 4 pl.
Key to 35 spp.
- SHANG, CHIH-BEI, *A new species of the Phoebe from Chekiang* (Laur.) Act. Phytotax. Sin. 12 (1974) 295-297, 1 pl.
- SHARMA, B.D. & B. GHOSH, *Contribution to the Flora of Sikkim Himalayas*. Bull. Bot. Soc. Beng. 24 (1970) 45-55, 1 map, 1 fig.
List of 303 spp. distributed over 238 genera and 95 families of ferns and angiosperms.
- SHAW, E.A. *Revisions of some genera of Cruciferae native to Australia*. Contr. Gray Herb. no. 205 (1974) 147-162, 1 fig., 3 maps.
Several new comb. and a new genus based on *Capsella antipoda* F.v.M.
- SHAW, H.K. AIRY, *Noteworthy Euphorbiaceae from tropical Asia (Burma to New Guinea)*. Hook. Icon. Pl. 38, pt 1 (or ser. V vol. 8, pt 1) (1974) tab. 3701-3725.
A wealth of accurate figures and descriptions with elucidating brief surveys of genera and affinity of species and sections.
- SHEEHAN, T. & M. SHEEHAN, *Orchid genera, illustrated*. XL. Amer. Orch. Soc. Bull. 43 (1974) 628-629, 1 col. pl.
Details on SE. Asian species.
- SHETLER, S.G. *Demythologizing biological data banking*. Taxon 23 (1974) 71-100.
Summary: The author asserts that biologists have been quite unrealistic in their predictions of what the computer can do for them in the realm of computerized data banking. With a backdrop of several years of 'hands-on' experience in the Flora North America Program, he analyzes the veritable mythology about data banking that has been fostered unwittingly by the proponents of computer-based information (data) retrieval systems and

challenges biologists and other scientists who are prospective designers of such systems to demythologize computers and data banks. The data bank is not a larger-than-life creature of science and technology having vast, McLuhanesque powers to digest information and spew back answers. The myths about the computer lead to unrealistic assumptions and expectations, becoming in time grand delusions and dangerous snares. Four myths are discussed: i. The Myth of the Automatic System, ii. The Myth of the User-Oriented System, iii. The Myth of Compatibility, and iv. The Myth of the Liberated Scientist. Under the first myth, six specific fallacies about data banking are discussed, concerning personnel requirements, the flexibility of computer media, and the computer's capacity to facilitate the organization, editing, and publication of data. The computer, it is asserted repeatedly, has a greater potential to enslave than to liberate the scientist. It is concluded that computerized systems are not alternatives for conventional systems of storing and retrieving information (data), but merely extensions or enhancements of such systems. Computers will not substitute for people, nor will automation replace the hand of the expert. The author, even while exposing what he terms data-banking myths, tries to make plain his own continuing dedication to the computer revolution in systematics as it pertains to information retrieval, but he stresses that this revolution can go forward only on the basis of realities, not on myths.

- SHIM, P.S. *Octomeles sumatrana* in plantation trials in Sabah (Datisc.) Mal. Forester 36 (1973) 16-21, 3 tab.
A better wood producer than *Anthocephalus chinensis*.
- SHIMIZU, T. A new species of *Clematis* from Taiwan (Ranunc.)
Taiwania 18 (1973) 173-175, 1 fig.
C. sasakii T. Shimizu sp. nov.; key to all spp. of *Clematis*.
- SIDDIQI, M.A. New plant records for West Pakistan. I. Pakist. J. For. 23 (1973) 128-132, 1 fig.
Key to 2 spp. of *Emex* (Polygon.).
- SINCLAIR, J. The genus *Horsfieldia* in and outside Malesia. I. *H. sabulosa* and *H. whitmorei* J. Sinclair spp. nov. (Myrist.) Gard. Bull. Sing. 27 (1974) 133-141.
One from Borneo, one from the Solomon Islands.
- SINGH, G. On Indian *Sambucus ebulus* (sensu C.B. Clarke) (Capr.)
Indian For. 99 (1973) 235-237.
Record; = *S. wightiana* Wall. ex W. & A.

- SINGH, N.P. & U.R. DESHPANDE, *Report of an endemic Ceylonese grass from India*. Indian For. 99 (1973) 674-675, 1 fig.
Isachne globosa var. *effusa* from Goa.
- SINGH, V. *Solanum triquetrum* Cav. - *An adventive species in Rajasthan* (Solan.) J. Bomb. Nat. Hist. Soc. 70 (1973) 413.
 2nd record of South American introduction.
- SIVARAJAN, V.V. & K.S. MANILAL, *A new species of Heliotropium L. from South India* (Borrag.) J. Indian Bot. Soc. 51 (1972) 348-350, 5 fig.
H. keralense allied to *H. indicum*.
- SLEUMER, H. *New species and noteworthy records of Rhododendron in Malesia* (Eric.) Blumea 21 (1973) 357-376.
 Important supplement; several new spp. from Mt. Kinabalu, Sarawak, New Britain, New Guinea, Philippines, Sabah. Reductions; extensious.
- SMIT, P.G. *A revision of Caltha* (Ranunc.) Blumea 21 (1973) 119-150, 9 fig. & maps.
 Key to 2 sect.; key to 10 spp.; descr.; distr. N. & S. America, Pakistan & Kashmir, Assam & Tibet Himalayas, Australia, New Zealand; not in Malesia.
- SMITH, A.C. *Studies of Pacific Island plants. XXVII. The genus Gardenia in the Fijian region* (Rubiaceae) Amer. J. Bot. 61 (1974) 109-128, 55 fig.
 Key to 12 spp.
- & S.P. DARWIN, *Studies of Pacific Island plants. XXVIII. The Guttiferae of the Fijian region*. J. Arn. Arb. 55 (1974) 215-263, 61 fig.
 16 spp. of *Calophyllum*, *Garcinia* and *Mammea* (4 new); keys.
- * SNEATH, P.H.A. & R.R. SOKAL, *Numerical taxonomy. The principles and practice of numerical classification* (1973) —
 Reviewed on page 2394.
- SOENARKO, S. *Rumput2 dipulau Peutjang (Udjung Kulon)*. Beriti Biologi 1, no. 3 (1971) 8-11.
 8 grasses from P. Peutjang (W. Java). In Indonesian.
- SOEPADMO, E. *Malayan botany and the Malayan Nature Journal, vols. 1-24*. Mal. Nat. J. 25 (1973) 114-134.
 Annotated bibliography arranged under headings of papers published.
- * ----- & HO THIAN HOA (ed.) *A guide to the Batu Caves* (1971) —
 Reviewed on page 2222.

- SOEWANDA AMONG PRAWIRA, R. & I.G.M. TANTRA, *Daftar nama pohon-pohonan. Palembang (Sumatera Selatan). (List of Tree species. Palembang, South Sumatra)*. Lembaga Penelitian Hutan, Bogor, Laporan no. 141 (1972) 91 + 4 pp. mimeogr. 60 pl.
Indonesian and Latin names.
- & ----- *Daftar nama pohon-pohonan. Lampung (Sumatera). (List of Tree species. Lampung, Sumatra)*. Ibid. no. 143 (1972) 29 + 2 pp. mimeogr., 40 pl.
Indonesian and Latin names.
- & ----- *Daftar nama pohon-pohonan. Bali dan Lombok. (List of Tree species. Bali and Lombok)*. Ibid. no. 145 (1972) 24 + 2 pp. mimeogr., 41 pl.
Indonesian and Latin names.
- & ----- *Daftar nama pohon-pohonan. Bengkulu (Sumatera). (List of Tree species. Bengkulu, Sumatra)*. Ibid. no. 159 (1973) 60 pp. mimeogr., 42 pl.
Indonesian and Latin names.
- & ----- *Pengenalan jenis-jenis pohon ekspor. Serie KE: IV. Lembaga Penelitian Hutan, Bogor, Laporan no. 161 (1973) 28 + 11 pp., 20 pl.*
Indonesian and Latin names of 20 illustrated important export timbers.
- SOM DEVA & H.B. NAITHANI, *Cyperaceae of Dehra Dun valley and the adjacent Siwaliks*. Indian For. 100 (1974) 636-654.
- SPECHT, R.L. et al. (ed.) *Conservation of major plant communities in Australia and Papua New Guinea (1974)* —
Reviewed on page 2395.
- SPONGBERG, S.A. *A review of deciduous-leaved species of Stewartia (Theac.)* J. Arn. Arb. 55 (1974) 182-214, 3 fig., 1 tab.
Key to tribes and subtribes of Camellioidae; key to 7 spp. and a hybrid of Stewartia; part of species in East Asia; 1 new sp. from China. Why specific epithets are not decapitalized is unclear.
- STACE, C.A. *The significance of the leaf epidermis in the taxonomy of the Combretaceae. IV. The genus Combretum in Asia*. Bot. J. Linn. Soc. 66 (1973) 97-115, 74 fig.
According to scale structure a fair number of sections should be reduced.
- STAVEREN, M.G.C. & P. BAAS, *Epidermal leaf characters of the Malesian Icacinaceae*. Acta Bot. Neerl. 22 (1973) 329-359.
Material of each Malesian species and those of Pennantia and some others of continental Asia was studied.

STEENIS, C.G.G.J. VAN, *Woodiness in island floras*. *Taiwania* 18 (1973) 45-48.

It is argued that students of island floras often make the basic error to neglect checking and comparison of so-called 'island flora characters' with their occurrence in continental floras which would be the only 'standard'. It is found that in all genera of Hawaiian and Macaronesian islands woodiness is also found in continents.

* STERLY, J. *Krankheiten und Krankenbehandlung bei den Chimbu in Zentralen Hochland von Neu-Guinea*. *Beitr.z.Ethnomedizin, Ethnobotanik u.Ethnozoologie II*. Arbeitsgemeinschaft Ethnomedizin Hamburg (1973) 289 pp. offset, illust.

On pp. 251-259 a list of the Chimbu names of medicinal plants, with the Latin plant names as far as could be ascertained. The rather fragmentary collection of some 300 numbers serving as vouchers is in the Hamburg Herbarium. Identification was mainly by Miss Dr. P.Wiemann (Hamburg), assisted by various other botanists.

STEVENS, P.F. *Three new species of Phaleria from Papuasias* (Thymel.) *J.Arn.Arb.* 55 (1974) 264-268.

Keyed out.

----- *A review of Calophyllum L. in Papuasias* (Guttif.) *Austr. J.Bot.* 22 (1974) 349-411, 16 fig.

Key to 34 spp. (15 new).

----- *Mammea L. and Mesua L. in Papuasias* (Guttif.) *Austr.J. Bot.* 22 (1974) 413-423, 4 fig.

7 spp. of *Mammea* incl. *Ochrocarpus* (3 new, 1 unnamed); *Mesua* 2 spp. incl. *Kayea* (1 new); keys.

* STEWART, R.R. *An annotated catalogue of the vascular plants of West Pakistan and Kashmir* (1972) — Reviewed on page 2224.

* ST. JOHN, H. *List and summary of the flowering plants in the Hawaiian islands* (1973) — Reviewed on page 2225.

----- *A new living species of Gouania on Oahu, Hawaiian Islands*. *Haw.Plant Studies* 40 (Rhamnac.) *Pac.Sci.* 27 (1973) 269-273, 2 fig.

Gouania gagnei sp.nov.

----- *New Pandanus species from New Guinea and Bougainville Island* (Pandani.) *Contr.Herb.Austr.* no. 3 (March 1974) 1-6, 2 fig.

2 new spp.

- *Revision of the genus Pandanus Stickman. Part 36. The new section Asperi from Indomalaya (Pandan.) Pac.Sci.* 28 (1974) 79-82, 1 fig.
A new section in subg. *Lophostigma* based on a new species from S. Sumatra.
- *Pandanus on Aldabra Island, Indian Ocean. Revision of the genus Pandanus Stickman. Part 37 (Pandan.) Pac.Sci.* 28 (1974) 83-100, fig. 328-338.
6 spp. all new, based on Fosberg material. One unnamed specimen in Zürich.
- *The vascular flora of Fanning Island, Line Island, Pacific Ocean. Pac.Sci.* 28 (1974) 339-355, 7 fig.
Normal atoll flora, 20 native plants, many cult. or introd.; 2 endemic *Pandanus* spp. of which 1 here descr.
- STONE, B.C. *Studies in Malesian Pandanaceae. IX. Taxonomic notes on Pandanus: species and synonyms. Fed.Mus.J.* n.s. 13 (1968) 150-154. (1971).
Critical notes on 9 spp.; several reductions.
- *Ditto. X. Four new Malesian species of Pandanus and notes on P. sarawakensis. Fed.Mus.J. n.s. 14 (1969)* 127-136, 4 fig.
1 sp. from Sumatra, 3 from Borneo.
- *Materials for a monograph of Freycinetia Gaud. XII (Pandan.) Fed.Mus.J. n.s. 13 (1968) 155-165, 5 fig.* (1971).
Various notes; a new section, a new sp. from Ternate and redescr. of *F. marantifolia* from New Guinea.
- *Ditto. XIV. On the relation between F. banksii A.Cunn. of New Zealand and F. baueriana Endl. of Norfolk Island, with notes on the structure of the seeds (Pandan.) New Zeal.J.Bot.* 11 (1973) 241-246, 1 fig.
- *A new wild Citrus from Malaya (Rutac.) Planter, Kuala Lumpur* 48 (1972) 90-92, 4 fig. (2 in col.).
C. halimii from Selangor to Kedah and Lower Thailand, a tree of the hill forest.
- *The genus Pandanus in the Solomon Islands with notes on adjacent regions. II (Pandan.) Malays.J.Sc.* 2(A) (1973) 59-80, fig. 19-38.
Key to spp. and var. in sect. *Pandanus*.
- *Citrus halimii: a new species from Malaya and peninsular Thailand (Rutac.) Biotropica* 5 (1973) 102-110, 6 fig.
Extensive discussion, chromosomes, well illustrated.

- *Studies in Malesian Pandanaceae. XIII. New and noteworthy Pandanaceae from Papuasiasia.* Contr.Herb.Austr. no. 4 (March 1974) 7-40, 21 fig., 1 tab.
Notes on Sararanga. Mostly notes on Pandanus, with 5 new spp.
- *A review of the Australian species of Pandanus, sectio Semikeura* (Pandan.) Contr.Herb.Austr. no. 5 (March 1974) 41-44, 1 tab.
6 spp. discussed.
- *A white-flowered variant of the Beach Morning-glory Ipomoea pes-caprae* (Convolv.) Mal.Nat.J. 27 (1974) 17-19, 2 pl.
In Malacca a new forma albiflora is found.
- STREIMANN, H. See under Timber species Leaflets.
- SUBBA RAO, G.V. & G.R.KUMARI, *A new record of Chenopodium for India* (Chenop.) J.Bomb.Nat.Hist.Soc. 69 (1972) 683.
Chenopodium carinatum R.Br.
- TAKAHASHI, H. *Studies in Tricyrtis. I. Taxonomy of T. macropoda complex* (Liliac.) Act.Phytotax.Geobot. 26 (1974) 31-40, 5 fig.
English summary.
- TANG, H.T. & C.TAMARI, *Seed description and storage tests of some dipterocarps.* Mal.For. 36 (1973) 38-53, 6 fig., 2 tab.
Influence of presence of wings in nursery nihil; viability tests.
- TANG TSIN & FA-TSUAN WANG, *Plantae novae Orchidacearum hainanensium.* Act.Phytotax.Sin. 12 (1974) 35-49.
New spp. in various genera.
- TATEOKA, T. *Calamagrostis nana, a revived species of the family Gramineae.* Bull.Nat.Sci.Mus.Tokyo 16 (1973) 45-60, 19 fig. + map, 1 tab., 1 pl.
From Japan.
- *A taxonomic study of the Poa macrocalyx complex, with particular reference to the populations in Eastern Hokkaido.* Bot.Mag.Tokyo 86 (1973) 213-228, 14 fig., 3 tab.
- TAYLOR, P. *Ceratostylis retisquama* (Orch.) Curtis Bot.Mag. n.s. 179 (1973) tab. 640.
From the Philippines.
- THAMAN, R.R. *Lantana camara: its introduction, dispersal and impact on islands of the tropical Pacific Ocean* (Verb.) Micronesica 10 (1974) 17-39, 1 map.
Full records on ecology in Pacific.

- *THANIKAIMONI, G. *Index bibliographique sur la morphologie des pollens d'Angiosperms 12(1), Suppl.1 (1973)* — Reviewed on page 2227.
- THEOBALD, W.L. *Notes on the Bignoniaceae*. Ceyl.J.Sc., Biol. 10 (1972) 75.
Discussion on the identity of *Stereospermum chelonoides* (L.f.) DC.
- *Bignoniaceae*. Revised Flora of Ceylon 1 (1973) 76-81, 1 fig.
Key; descr.; no novelties.
- & D.A.GRUPE, *A new name and combinations in the Gesneriaceae*. Ceyl.J.Sc., Biol. 10 (1972) 70-71.
Concerns the genera *Chirita* and *Rhynchoglossum* (Klugia).
- & ----- *Pedaliaceae*. Revised Flora of Ceylon 1 (1973) 82-86, 1 fig.
Keys; descr.
- & ----- *Gesneriaceae*. Revised Flora of Ceylon 1 (1973) 87-106, 8 fig.
Keys; descr.; a few new comb. or new names.
- & ----- *Martyniaceae*. Revised Flora of Ceylon 1 (1973) 107-109, 1 fig.
1 sp. descr.
- THOTHATHRI, K. *On Centrosema virginianum* (Linn.) Benth. in India (Legum.) Curr.Sci. 39 (1970) 353.
- TIMBER SPECIES LEAFLETS. A technical publication of the Dept. of Forests, Papua New Guinea, all signed by H.STREIMANN. Loose leaves giving for each species a distr. map for eastern New Guinea, description, drawing, utilization. Species, all of 1972: no.1. *Anisoptera polyandra* (Dipt.); no.2. *Araucaria cunninghamii*, and no.3. *Araucaria hunsteinii* (Arauc.); no.4. *Intsia bijuga* (Leg.-Caes.); no.5. *Dracontomelon puberulum* (Anac.); no.6. *Endospermum medullosum* (Euph.); no.7. *Pometia pinnata* f. *tomentosa* (Sapind.); no.8. *Pterocarpus indicus* (Leg.-Pap.); no.9. *Alstonia scholaris* (Apoc.); no.10. *Pterocymbium beccarii* (Sterc.).
- TIN MYO NGWE, *The Burmese Malvales (in part)*. Union of Burma J.of Life Sci. 4 (1971) 185-262, 54 fig.
Keys to fam. Elaeoc., Tiliac., Bombac., Malvac.; genera and species; no novelties; beautiful plates.
- TIN TIN YI, *The Burmese Mimosacéae*. Union of Burma J.of Life Sci. 4 (1971) 1-37, 40 fig.
Key to species; no novelties.

- TIXIER, P. *Contribution à l'étude de la biologie des Diptérocarpacées. La phénologie et la germination du koki (Hopea odorata) à Dangkor (Kandal)*. Bois et Forêts des Tropiques no. 148 (1973) 47-52, 4 fig.
- TOGASHI, M. *Mitrastemon* sp. found in North Borneo (Raffl.) J.Jap.Bot. 49 (1974) 214.
In Japanese. Summary of known data.
- TOMLINSON, P.B. & A.M.GILL, *Growth habits of tropical trees: some guiding principles*. In B.J.Meggers (ed.) Tropical forest ecosystems in Africa and South America: a comparative review. Smithsonian, Washington (1973) 129-143, 17 fig.
Some general considerations in addition to those of Hallé and Oldeman.
- *TOTHILL, J.C. & J.B.HACKER, *The grasses of Southeast Queensland*. Publ. for Trop.Grassl.Soc.Austr. by the Univ. Queensl.Press (1973) x + 300 pp., illust.
Grass vegetation introd. chapters. Atlas with generic descr. and brief keys to spp.; key to all genera. A most useful book.
- TOWNROW, J.E.S. *The genus Stipa L. in Tasmania. 2. Distribution of the species* (Gram.) Pap. & Proc.R.Soc.Tasm. 107 (1974) 11-31, 7 fig. + maps, 6 tab.
Range of 9 spp. mapped and discussed, ecosociologically.
- TOYODA, K. *Natural germination and flowering of old Nelumbo fruits dug from the mud layer of Gyoda, Saitama Pref., Japan* (Nymph.) J.Jap.Bot. 49 (1974) 206-213, 2 col.phot.
Subfossil seeds viable; age not mentioned.
- TRAN VAN NAO, *Forest resources of humid tropical Asia*. In UNESCO, Natural resources of humid tropical Asia (1974) 197-215, 2 fig.
Some figures on total forested area and (potential) productivity; Distribution of Dipterocarps, teak, bamboos, conifers, mangrove; Management systems; Production possibilities and problems; How to increase production. A bit sketchy and purely concerned with profit.
- TREE FLORA OF MALAYA 2 (1973) — Reviewed on page 2227.
- TRIVEDI, B.S. & S.K.CHATURVEDI, *Voyriseminites magnus* gen. et sp.nov. A fossil seed from Tertiary coal of Malaya (Gent.) Geophytology 1 (1971) 161-164, 2 fig., 1 pl.
Eocene; would be allied to the American genus *Voyrix* (Gent.). My impression is that it has been checked insufficiently with various other Malesian plants with small, spindle-shaped, winged weeds which occur in many other families (Rubiaceae, Gesneriaceae, etc.). — v.St.

- TSIANG YING, *Sinopimelodendron*, a new genus of Euphorbiaceae from Kwangsi. Act.Bot.Sin. 15 (1973) 131-135, 1 fig.
- *Dolichopetalum* genus novum Asclepiadacearum. Act.Bot. Sin. 15 (1973) 136-139, 1 fig.
New genus, new sp. from Kwangsi; belongs to Marsdeniinae.
- & PING-T'AO LI, *Praecursores Florae Apocynacearum Sinensium*. Act.Phytotax.Sin. 11 (1973) 347-397, pl. 36-54.
New spp., var. & comb. in several genera.
- & ----- *Praecursores Florae Asclepiadacearum Sinensium*. Act.Phytotax.Sin. 12 (1974) 79-149, 26 pl.
Various genera; records, also new spp.
- TZVELEV, N.N. & E.B.ALEXEEV, *Festuca potaninii* Tzvel. et E. Alexeev species nova - A new species from the eastern part of the Chinese people's Republic (Gram.) Bull. Mosc.Soc.Nat., Biol.Ser. 79 (1974) 141-142, 1 fig.
New sp. from Shansi, Mt. Peitai.
- * UNESCO, *Natural resources of humid tropical Asia* (1974) —
Reviewed on page 2396.
- * VALENTINE, D.H. (ed.) *Taxonomy, phytogeography and evolution* (1972) — Reviewed on page 2228.
- VELDKAMP, J.F. *A revision of Digitaria Haller in Malesia. Notes on Malesian grasses VI*. Blumea 21 (1973) 1-80, 14 fig., maps, 3 tab.
27 spp.; key; 3 new spp.
- VERDON, D. *Melaleuca species at Canberra Botanic Gardens* (Myrtac.) Austr.Plants 7 (1973) 73-92, 6 col.phot.
Descr., no keys.
- * VERSTAPPEN, H.TH. *A geomorphological reconnaissance of Sumatra and adjacent islands* (1973) — Reviewed on page 2229;
add the year of publication.
- VIDAL, J.E. *Contribution à l'ethnobotanique du Laos et du Cambodge (Noms vernaculaires, Usages)*. J.Agric.Trop.et Bot.Appl.Paris, Cah.no.2 (1972) 88 pp., 5 pl.
- *Bibliographical survey of taxonomic and phytogeographic studies related to Indochina (Cambodia, Laos, Vietnam) from 1955 to 1969*. Symp.Planned utilization of the lowland trop.forests, Cipayung, Bogor, 1971 (1973) 111-117.
- *Voyage botanique en Asie du Sud-Est*. Science et Nature no.120 (1973) 12 pp., 2 maps, 18 phot.
Report on 1971 trip. Attended also symp. at Cipayung. Visit to Ujung Kulon; also Thailand.

VYAS, K.J. & G.L. SHAH, *Some interesting plants of Gujarat State*. J. Bomb. Nat. Hist. Soc. 69 (1972) 684-686.

* WALKER, D. (ed.) *Bridge and barrier: the natural and cultural history of Torres Strait* (1972) — Reviewed on page 2229.

WANG, WEN-TSAI, *Notulae de Ranunculaceis sinensibus III*. Act. Phytotax. Sin. 12 (1974) 155-190, pl. 39-48.
New spp. in Aconitum, Delphinium, Anemone; key (in Chinese) to 49 spp. of Anemone.

WANG ZHAN & PEI-YUN FU, *Plantae novae Salicacearum tibeticarum*. Act. Phytotax. Sin. 12 (1974) 191-212, pl. 49-54.
New spp. in Populus and Salix.

* WARD, R.G. & D.A.M. LEA (ed.) *An atlas of Papua and New Guinea* (1970) — Reviewed on page 2232..

WARDLE, P. *New Guinea. Our tropical counterpart*. Tuatara 20 (1973) 113-124, 8 fig.

Tour report Papua New Guinea with remarks on the mountain vegetation especially; notes on regeneration of Conifers; alpine zone; comparison present flora with that of New Zealand; suggestions about early Tertiary connections; speciation in the two islands compared.

THE WEALTH OF INDIA 9: Rh-So (1972) — Reviewed on page 2232.

WESTING, A.H. & E.W. PFEIFFER, *The cratering of Indochina*. The Explorer 14 (1972) 8-14, illust.
Terrible figures and conclusions. More in BioScience 21 (1971) 893-898, and other papers by Westing.

WESTPHAL, E. *Pulses in Ethiopia, their taxonomy and agricultural significance*. Joint Publ. of Coll. Agric. Haile Selassie I Univ. & Agric. Univ. Wageningen; Agric. Res. Rep. 815 (1974) 276 pp., 28 fig., 72 pl., 1 tab.

WHITMORE, T.C. *On the Solomons' Sago Palm*. Principes 17 (1973) 46-48, 2 fig.

* ----- *Palms of Malaya*. Kuala Lumpur/Singapore/Oxford Univ. Press London (1973) xv + 132 pp., 106 fig. & maps, 16 pl.
Keys, descr., distr., indices; not exhaustive to spp. a selection being made of common or conspicuous or interesting species. Reviewed on page 2232.

----- *Change with time and the role of cyclones in tropical rain forest on Kolombangara, Solomon Islands* (1974) — Reviewed on page 2398.

- WHYTE, R.O. *The Gramineae, wild and cultivated, of monsoonal and equatorial Asia. I. Southeast-Asia*. Asian Perspective 15 (1973) 127-151.
Generalities about cult., domest., early cult., archaeology, etc. in a regional survey.
- *Grasses and grasslands*. In UNESCO, Natural resources of humid tropical Asia (1974) 239-262, 1 fig.
Repetition from the author's earlier books has been avoided. The place of the grasses of monsoon Asia in global context is sketched. Plant-geographical problems are extensively discussed (specifically those in the relation of India and Iraq), in connection with taxonomic aspects. Studies of species areas are recommended. Account of progress on autecology, on polymorphism, on biosystematics (especially in *Panicum*). Aspects of grazing and succession are discussed. Work in countries is summarized (New Guinea excepted). Points of advice are given for improvement of Asian grass covers. Special concern with Imperata.
- WIENS, D. *Viscaceae; Loranthaceae*. Revised Flora of Ceylon 1 (1973) 58-75.
Keys, descr., a few new comb.
- WILDE, W.J.J.O.DE, *Botanical exploration in the Gunung Leuser Nature Reserves (Atjeh, Indonesia)*. Neth. Found. Adv. Trop. Res. WOTRO, Year-Report (1972) 36-38, 2 fig.
Brief report on an exploration.
- *WILLIS, J.C. *A dictionary of the flowering plants and ferns*. 8th ed. (1973) — Reviewed on page 2237.
- WILSON, F.D. *Hibiscus section Furcaria in Australia* (Malvac.) Austr. J. Bot. 22 (1974) 157-182, 18 fig., 4 tab.
15 spp. and 1 introd. sp. recognized; 13 are endemic (4 new spp.); key.
- WINTERS, H.F. *New Impatiens from New Guinea* (Balsam.) Amer. Horticult. 52 (1973) 16-22, many col. phot.
Report on collections of living material and work thereon.
- WOLLONGONG, D.B.S. *Vireya Rhododendrons growing in Australia* (Eric.) The Rhododendron 12 (1973) 8-10.
Cult. of New Guinea spp.; odd notes.
- WOLTZ, PH. & C. CHATELET, *Remarques sur l'évolution vasculaire de quelques plantules d'Austrolibocédrées: Libocedrus yateensis Guillaumin, Libocedrus doniana Endlicher*. Bull. Soc. Bot. Fr. 120 (1973) 303-310, 4 fig.
Study of seedlings vasc. system; spp. from New Caled.

- WOMERSLEY, J.S. *Plant collecting for anthropologists, geographers and ecologists in New Guinea*. Dept. of For. Papua New Guinea, Bot. Bull. no. 2 (1972?) 1-69, 13 fig.
- WONG FUNG ON, *A study of the growth of the main commercial species in the Segaliud-Lokan F.R. Sandakan, Sabah*. Mal. For. 36 (1973) 20-37, 2 fig., 6 tab.
Abundance and profile of 5 Dipterocarps in old regenerating forest.
- WOOD, D. *A revision of Chirita (Gesner.)* Notes R. Bot. Gard. Edinb. 33 (1974) 123-205.
Features of interest: foliar glands, vascular supply to stigma; in sect. *Microchirita* epiphyllous inflorescence. Chromosome numbers of 12 spp. ($n=4, 9, 10, 16, 17$). Difference on generic level seems to be the thin lamella of the lower lip (usually divided) of the stigma (in *Chirita*) and the capitate stigma in *Didymocarpus*. 10 spp. occur in the Malesian area. No new names or comb. It is very unfortunate that the Bogor, Singapore and Leyden herbaria are not consulted. Based on sheets of K, BM, E, P, some of A.
- *WORLD ATLAS OF AGRICULTURE. Vol. 2. *Asia and Oceania* (1973) — Reviewed on page 2398.
- WU, CHENG-YIH & CHEN CHEIH, *Materiae ad floram Labiatarum sinensium* (3). Act. Phytotax. Sin. 12 (1974) 21-33, 2 pl. Species of *Ajuga* and *Glechoma*; some new infraspecific taxa.
- & SHU-CHUNG HUANG, *Materiae ad floram Labiatarum sinensium* (4). Act. Phytotax. Sin. 12 (1974) 337-346, 2 pl. Synonymy of 20 spp. of *Elsholtzia*; no key.
- WULIJARNI-SOETJIPTO, N. & G.G. HAMBALI, *Tanaman-tanaman asing di cagar alam Telaga Warna*. Berita Biologi 1, no. 4 (1974) 12-26.
List of plants near Telagawarna above Bogor. In Indonesian. All weeds and escaped plants.
- YAMAZAKI, T. *Gamopetalous plants in Far Eastern Asiatic regions and Micronesia*. 1. J. Jap. Bot. 49 (1974) 149-160, 2 fig.
Survey of Sapot. spp.; key; no novelties.
- *Ammannia auriculata* var. *arenaria* found in Kyushu and Taiwan (Lythr.) J. Jap. Bot. 49 (1974) 224.
New records.
- *Gamopetalous plants in Far Eastern Asiatic regions and Micronesia*. 2. *Ebenaceae*. J. Jap. Bot. 49 (1974) 241-249.
Key to 11 spp.; 1 new from Botel Tobago.

- YANG, YUENG-PO, *New records of Najas in Taiwan* (Najad.) *Taiwania* 19 (1974) 106-108, 3 fig.
Key to 7 spp., no descr. except for 3 new records.
- YEO, P.F. *The species of Acaena with spherical heads cultivated and naturalized in the British Isles* (Rosac.) Appendix III in P.S.Green (ed.), *Plants: wild and cultivated*; Bot.Soc.Brit.Isl.Conf.Reports no. 13 (1973) 193-221, 13 fig.
Key to 15 spp.
- *Geranium procurrans* (Geran.) Curtis *Bot.Mag.* n.s. 179 (1973) tab. 644.
From Nepal and Sikkim.
- YI YI, *The Burmese Sterculiaceae*. Union of Burma *J.of Life Sci.* 1 (1968) 158-193, 42 fig.
Key to spp.; no novelties; polleh key to genera.
- *YOUNGNER, V.B. & C.M.MCKELL (ed.) *The biology and utilization of grasses*. Acad.Press Inc. New York/London (1972) xx + 426 pp., many fig., phot., tab.
28 chapters by various authors as the result of a symposium on grass biology at Riverside Calif. 1969. Many fundamental aspects of grass evolution genetics, morphology, physiology, and ecology are covered. With author index and subject index.
- YÜ, YUNG-NIEN, *On the validation of Yenciaceae in Ustilaginales*. *Act.Phytotax.Sin.* 12 (1974) 317-327, 9 fig., 3 tab.
In Chinese; summary.
- ZIECK, J.F.U. *Minor forest products*. Pamphlet of the Dept. of Forests, Papua New Guinea (+ 1971) 11 pp.
Main species: rattan, sandalwood, resin of Agathis, Anisoptera, Araucaria, Vatica; essential oils of Cinnamomum culilawan and Cryptocarya massoi, fibres of Hibiscus tiliaceus, Musa, Pandanus and Gnetum gnemon, palms for many purposes besides Metroxylon for starch; linseed oil of Aleurites. Economic considerations.
- ZOTOV, V.D. *Hierochloe R.Br. in New Zealand* (Gram.) *New Zeal. J.Bot.* 11 (1973) 561-580, 2 fig., maps.
Key to 7 spp.; 4 new spp.; *H. redolens* also in Tasmania, Australia and New Guinea.

REPRINTS AVAILABLE FROM OTTO KOELTZ

P.O. Box 129, D-624 Koenigstein, West Germany

- BARTRAM, E.B. *Mosses of the Philippines*. Philip.J.Sc. 68 (1939) 437 pp. Cloth DM 135.
- BLAKE, S.F. & A.C. ATWOOD, *Geographical Guide to the Floras of the World, vol.1 (Africa, Australia, Americas, Ocean islands)* (1941) 336 pp. Cloth DM 90.
- BOR, N.L. *Grasses of India, Burma and Ceylon (excl. Bambuseae)* (1960) xvii + 767 pp. Cloth DM 220.
- HARA, H. *Enumeratio Spermatophytarum Japonicarum*, 3 volumes bound in one (1948-54) 917 pp. Cloth DM 260.
- JACKSON, B.D. *Guide to the Literature of Botany* (1881). DM 110.
- PRITZEL, G.A. *Thesaurus Literaturae Botanicae*, 2nd ed. (1871-77) 577 pp. Cloth DM 180.
- REHDER, A. *The Bradley Bibliography*, 5 vol. (1911-18) 3895 pp. Subscription price DM 1200, after publication DM 1380.
- SCHLECHTER, R. *Die Orchideen von Deutsch Neu-Guinea*. Fedde Rep. Beih. 1 (1914) lxvi + 1079 pp. Cloth DM 305.
- SCHLECHTER, R. *Figuren-Atlas zu den Orchideen von Deutsch Neu-Guinea*. Fedde Rep. Beih. 21 (1923-28) 1440 fig. on 372 pl. Cloth DM 132.
- SWIFT, L.H. *Botanical Bibliographies. A Guide to Bibliographic materials applicable to Botany* (1970) 804 pp. DM 220.

FLOWER BIOLOGY OF QUISQUALIS INDICA

Father E. Schmutz SVD observed in Surabaya that flowers open at night; they are then white and stick out perpendicular to the raceme. They are in that stage visited by long-tongued night-moths which hover before them as kolibris. Towards dawn they regain their 'normal' position and turn rosa, and during the morning they are visited by several kinds of bees.

R.E.HOLTTUM, BY HIMSELF

This biographical account was kindly compiled by Dr. Holttum at the request of the Editor, during his visit to Leiden in June 1974, and was subsequently by the former amplified and corrected. Some other scientific auto-biographical notes occur in Dr. Holttum's paper 'Plant Taxonomy as a Scientific Discipline', *Advanc. Sc.* no. 73 (1961) 9 pp. The photograph was made at Kew in February 1946, by F. Ballard.

Richard Eric Holttum, born 20 July 1895, at Linton, in the South of Cambridgeshire, son of Richard and Florence (Bradley) Holttum; family of six children. My father and his brother managed a general store which served the district. My mother was much interested in music.

Linton is a village of c. 1700 inhabitants, headquarters of a rural district of smaller villages in chalk country. Like every one else we grew all our own vegetables and fruit. As a child I spent much time in company with the gardener who was employed by my father and helped to gather garden produce. Also each member of the family had a small plot in which to grow a few plants. We learned also to know the plants of the countryside, which included no ferns (not even *Pteridium*) at any place in walking distance.

Attended village elementary school from age 5 to 11. Then to the Friends' (Quakers) School, Saffron Walden in Essex as boarder until age 16. One of the teachers was a good all-round naturalist, and organized a natural history society, but no formal teaching in biology. Obtained scholarships to cover cost of two final years' education at Boolham School, York, where principal studies were chemistry, physics and mathematics, with a little modern language study. Obtained leaving scholarship and entrance to St. John's College, Cambridge. One year (1913-14) spent as student-teacher at Saffron Walden School, learning Greek and more Latin for Cambridge entrance examination (both compulsory).

At Cambridge 1914-16 studied Chemistry Physics & Botany for first part of Natural Science tripos. Mid-1916 to early 1919 with Friends Ambulance Unit, partly in an ambulance convoy with the French army as a cook or, in the vernacular, cuisinot. Became fluent in French and took an interest in flora of the countryside where accessible.

1919-20 studied for Botany as sole subject in second part of Natural Science Tripos, under Professor A.C. Seward. Was awarded first class honours and the University prize in Botany. 1920-22 assisted Professor Seward in paleobotanical work, and was appointed junior Demonstrator at University School of Botany. Also studied for University Teachers Diploma (1921). 1921 accompanied Prof. Seward to West Greenland to

collect plant fossils on Disko Island and the Nugsuak Peninsula N. of Disko (the fossils included ferns); also collected specimens of living plants and learned much from M.P.Porsild, in charge of the Dansk Arctic Station at Godhavn on Disko. First published paper was on vegetation of West Greenland (Journal of Ecology 1922).

Looked around for a botanical appointment and two were suggested, one on staff of Natural History Museum in London, one in Singapore. I thought the Singapore appointment was preferable, applied and was accepted as Assistant Director of the Gardens Dept., Straits Settlements; arrived in Singapore July 1922. I.H.Burkill was director; no other botanical staff. A Curator (horticulturalist) had been trained at Kew. Burkill was mainly interested in useful plants but also was a good field botanist with a very wide knowledge. My first introduction to tropical collecting was at Fraser's Hill (then being cleared for a holiday resort) with Burkill Sept. 1922. Burkill gave me the task of "putting the fern herbarium into order". I soon realized how chaotic Ridley's ideas about ferns had been; also more gradually that the general state of fern taxonomy was very unsatisfactory, and that my teaching at Cambridge had been of little use as an introduction to the study of tropical plant taxonomy of any kind and of ferns in particular, though I had studied the morphological work of F.O.Bower (a friend of Prof. Seward's).

In 1923 I.H.Burkill went away on long leave (his first since 1912) and I had administrative charge of the Gardens; also of the Garden at Penang. In 1925 Burkill retired and thereafter I continued to be in charge, though the appointment of Director was not confirmed until 1926. M.R.Henderson (who had been botanist at the Museum at Kuala Lumpur) was appointed Curator of Herbarium; he took charge during my long leave in 1926-27. C.X.Furtado, who had been appointed Field Assistant by Burkill, became Assistant Botanist, and undertook much study of palms and aroids, in addition to routine work in the Herbarium. Mohamed Nur, Herbarium Assistant, developed a remarkably wide knowledge of local plants; his help was of very great value.

Married C.E.Ursula Massey in June 1927 at Saffron Walden; her father was a farmer and she had been a pupil at the school at Saffron Walden; later, an art student in London. Two daughters were born to us in Singapore.

In Singapore there was general public interest in gardening, but few people had any knowledge of native local plants. I realized that I would be judged by the appearance of the Garden and that horticultural practice needed to be improved. So I tried to obtain a good knowledge of tropical cultivated plants of all kinds and sought contact with local people who had gardening skills. We formed a gardening soci-

ety and held flower shows. This finally led to my writing a book on gardening in Malaya, more immediately to a series of articles in the Malayan Agri-Horticultural Society's Magazine (1930-40).

In 1929 E.J.H. Corner was appointed Assistant Director. He spent much time and immense effort in studying not only fungi (his primary interest) but *Ficus* and then trees in general. I developed an interest in bamboos, finding that publication on local species was unintelligible, and gradually accumulated field notes on them. Local residents were interested in orchids and formed an orchid society, and I tried to study orchids, finding Ridley's work often unintelligible. H. Burgeff (of Würzburg) called at Singapore about 1928 after spending some months at Bogor; he told me about the Knudson method of growing orchid seedlings in sterile culture. We set up apparatus for doing this and began to raise hybrid seedlings, taking note of simultaneous work in Java which had already produced important results. I also learnt some Dutch in order to read *De Tropische Natuur* and the works of C.A. Backer.

I continued my study of ferns as opportunity offered, and corresponded with Christensen and Copeland, later with Ching, exchanging specimens. My first important study was on *Stenochlaena*, in which Diels included the unrelated genera *Lomariopsis* and *Teratophyllum*. Field work and anatomical examination showed the wide differences among these ferns, and also that distinct species exist (as recognized by Fée but denied by Hooker). I continued this work with the allied genus *Lomagramma*, and also studied *Lomariopsis* species of America and Africa when in Europe in 1938. I found it difficult to undertake sustained taxonomic study and also a good deal of administrative work, and promotion of horticultural interests, at the same time.

The Japanese occupation changed this situation. I was asked by Prof. H. Tanakadate to remain in administrative charge of the Gardens, and Corner remained also with me outside the internment camp. After the arrival of Prof. H. Koriba as Director I had no further administrative responsibility and Corner and I both devoted all our time to botanical research.

I began to make a systematic study of the orchids of the Malay Peninsula, using notes and publications of C.E. Carr, and examining all Ridley's type specimens; also making detailed drawings of flowers of plants in cultivation, which were numerous. In a year I made a draft covering the whole family, including locally cultivated species which were not native, and continued to raise hybrid seedlings. I added new information to this draft as fresh flowers became available. Next I prepared a systematic account of all ferns of the Peninsula, with detailed drawings, which led to new thought

on classification of ferns. Reverting to Monocotyledons, I made studies of Zingiberaceae, of which Corner had made excellent collections, and of which living plants also existed, also Marantaceae. Then I turned to Gramineae, which I had never previously studied in detail (except for bamboos) and wrote systematic accounts of that family and Cyperaceae. The Cyperaceae has remained in MS because I could see how much more work needed to be done on basic nomenclature and on study of plants described in neighbouring regions, but I wrote a paper on classification within the family.

After the Japanese surrender, Henderson fortunately returned to take charge, and Corner and I went to England to recuperate; Corner did not return. In the years 1946-49 I was able to undertake some field work, to add information on Orchids, Zingibs, Marantaceae, and Bamboos.

In 1949 I resigned from the post of Director of the Gardens, and was appointed Professor at the new University in Singapore. I had a first year class of 12 students, all almost totally ignorant of botany, and had to think how to introduce the subject to them in terms of local plants which they could see. This resulted in my writing *Plant Life in Malaya*, as a simple introduction to the subject, which had never been taught adequately in local schools. I also thought much about the comparative morphology of monocotyledons and wrote a paper on their growth habits (*Phytomorphology* 1955). I was able also to finalize my study of Zingiberaceae and Marantaceae and my notes on orchids, ferns, and on gardening for publication in 1951-54. I retired in 1954 and settled with my family at Kew, where my first work was to write an account of the Malayan bamboos. After that I devoted nearly all my time to ferns, apart from a study of the bamboos of New Guinea in 1963-64.

Principal botanical travels after 1954: 1957: International Orchid Conference at Honolulu.

1957-58: Six months studying and re-arranging fern herbarium at Bogor.

1959-60: Two months at Copeland Herbarium, Ann Arbor; via shorter periods in U.S. National Herbarium and University of California (Berkeley) on to Australia (visiting herbaria at Melbourne, Sydney, Brisbane), Bogor, Singapore, and Kuala Lumpur.

1963: To Singapore in July; five weeks at Lae, with travels in New Guinea; calls at Cairns, Brisbane, Sydney, Canberra, Melbourne; Orchid Conference in Singapore (October); Peking and Canton; stop at Calcutta on way home.

1967: Visit to herbaria at Prague.

1969: International Botanical Congress at Seattle; to Australia with visits to herbaria at Melbourne, Sydney, and

Brisbane; three weeks at Lae; three weeks at Bogor; Singapore, Malaya, Calcutta.

1972: Two weeks with Dr. Sen visiting Forest Reserves near Kalimpong and Darjeeling; a few days in Calcutta herbarium; to Penang with visit to Cameron Highlands; via Singapore to Mt. Kinabalu (one week, with staff members of Singapore Gardens and Nanyang University); short visit to Hong Kong (Dr. H.S.Hu and collaborators in Flora of Hong Kong), Manila (College of Agriculture and University; Prof. P.M.Zamora, M.G. Price), Singapore; Calicut (a few days at University with Prof. B.K.Nayar) with field trip to Wynnad Hills; Mysore, Bangalore, Bombay, Nairobi (visit to southern slopes of Mt. Kenya with J.B.Gillett to see ferns).

Non-botanical interests: music (choral singing with musical society in Singapore, and general). An attempt to maintain an interest in progress of scientific knowledge generally. Rather casual and varied reading. Travel in Europe during periods of long leave.

Rotary Club in Singapore (Secretary, then President) chiefly as an opportunity of meeting people of other professions, especially local-born people. Chairman of Rotary International district; 1948.

Society of Friends. Member from 1920. Helped to start a regular meeting in Singapore 1948. Member and Elder of Meeting at Isleworth since 1954; Treasurer to a group of meetings 1960-67.

Honours: awarded degree of Sc.D. by University of Cambridge in 1951, in recognition of published work; Hon. D.Sc. by University of Singapore in 1954; President, British Pteridological Society, 1958-60; President, section K of British Association for the Advancement of Science, in 1961; American Orchid Society Gold Medal in 1963; Malayan Orchid Society Gold Medal in 1963; Westonbirt Orchid Medal, Royal Horticultural Society, 1964; Linnean Gold Medal in 1964; Victoria Medal of Honour, Royal Horticultural Society, 1973.

Besides, the Orchid Society of South East Asia (formerly Malayan Orchid Society) awards annually an Eric Holttum Medal for the best locally produced hybrid. The medal has his face on it; "I told them that this kind of thing was usually done after the man was dead" (in a letter to Van Steenis, 13 July 1974).

Honorary Member of the Malayan Nature Society; Orchid Society of South East Asia; Royal Netherlands Botanical Society; American Botanical Society; American Fern Society; British Pteridological Society.

Scientific botanical names dedicated to Dr. R.E.Holttum

Personal names are often commemorated in plant names, frequently so in describing new species, as authors feel either induced to pay a tribute to the collector, or sometimes merely because they cannot easily coin a more scholarly epithet or the plant lacks obvious specific features.

Holttum has never been a very frequent collector and has not made larger expeditions to entirely unexplored areas.

Names dedicated to him were either made in honour of his work on certain major groups (orchids, ferns, sedges, bamboos) whilst other names were obviously commemorating his arduous help to fellow botanists.

Though he himself wrote recently about the plant names commemorating his name: "I regard them as of no importance whatever".

It is true that, as has so often been the case with genera named after famous botanists, three of the four generic names commemorating his name are doomed to disappear into synonymy: *Holttumia* Lloyd is merely a *Hypoxylon*, *Holttumia* Copeland is a homonym and *Holttumiella* is reduced to *Taenitis*. Furthermore, also specific epithets tend often not to stand the test of time when groups are thoroughly revised.

But this is beside the question and for once we dare to disagree with Holttum and take pride in these names, as we feel that they render homage to two conspicuous and admirable qualities of his personality: helpfulness to others and scholarship in a number of very large and difficult plant groups. And his personal comment reflects a third quality for which we admire him: his sincere modesty. — C.G.G.J. van Steenis.

Angiopteris holttumii C.Chr., Gard.Bull.Str.Settl. 7 (1934) 209. — Marattiaceae.

Bulbophyllum holttumii A.D.Hawkes, Lloydia 19 (1956) 92. — Orchidaceae.

Cyathea holttumii Copel., Philip.J.Sc. 56 (1935) 472, t.2 = *Gymnosphaera holttumii* (Copel.) Copel. — Cyatheaceae.

Dendrobium holttumianum Hawkes & Heller, Lloydia 20 (1957) 121. — Orchidaceae.

Endiandra holttumii Henderson, Gard.Bull.Str.Settl. 7 (1933) 120, t.31. — Lauraceae.

Eugenia holttumii Ridl., J.Bot. 62 (1924) 296. — Myrtaceae.

Garcinia holttumii Ridl., Kew Bull. (1924) 261. — Guttiferae.

Gastrodia holttumii Carr, Gard.Bull.Str.Settl. 5 (1929) 38, t.17. — Orchidaceae.

Geostachys holttumii Larsen, Bot.Tidsskr. 58 (1962) 47, fig. 3. — Zingiberaceae.

- Goniothalamus holttumii Sinclair, Gard.Bull.Sing. 14 (1955) 429. — Annonaceae.
- Grammitis holttumii Copel., Univ.Cal.Pub.Bot. 18 (1942) 224. Filices.
- Gymnosphaera holttumii (Copel.) Copel., Gen.Fil. (1947) 99. Cyatheaceae.
- Holttumara, in Mal.Orch.Rev. 5 (1958) 75 (a trigeneric orchid hybrid: *Arachnis* x *Renanthera* x *Vanda*). — Orchidaceae.
- Holttumia congregata C.G.Lloyd, Mycol.Writ. 7 (1924) 1285, pl.296, fig.2896/8 (= *Hypoxylon*). — Ascomycetes.
- Holttumia flabellivenia (Baker in Hook.& Baker) Copel., Philip.J.Sc. 74 (1941) 153, t.1, non Lloyd 1924 =
- Holttumiella flabellivenia (Baker in Hook.& Baker) Copel., Philip.J.Sc. 75 (1941) 360 (= *Taenitis* Willd.). — Filices.
- Hydnum holttumii C.G.Lloyd, Mycol.Writ.. 7 (1923) 1227, pl. 256, fig.2541. — Fungi.
- Mapania holttumii Kern, Blumea 9 (1958) 215. — Cyperaceae.
- Nastus holttumianus N.L.Bor, Oest.Bot.Zeitschr. 120 (1972) 90. — Bambusaceae.
- Pandanus holttumii H.St.John, inedit. — Pandanaceae.
- Platyserium holttumii de Joncheere & Hennipman, Brit.Fern Gaz. 10 (1970) 116, pl.12, fig.1-6. — Filices.
- Pteris holttumii C.Chr., Gard.Bull.Str.Settl. 7 (1934) 287, fig. — Filices.
- Rumohra holttumii Tagawa, Act.Phytotax.Geobot. 14 (1950) 46. Filices.
- Sphagnum holttumii A.Johnson, Gard.Bull.Sing. 17 (1959) 321, fig. — Musci.
- Sterculia holttumii Ridl., Kew Bull. (1926) 471. — Sterculiaceae.
- Tectaria holttumii C.Chr., Gard.Bull.Str.Settl. 7 (1934) 259, t.55. — Filices.
- Tetractomia holttumii Ridl., J.Bot. 62 (1924) 295. — Rutaceae.

+ + +

Bibliography of R.E.Holttum

This was kindly sent by Mr. J.P.M.Brenan, of Kew, December 1974. A few items of 1975 were added in February 1975.

1921: On a collection of fossil plants from Southern Rhodesia (by A.C.Seward & R.E.H.) — S.Rhod.Geol.Surv.Bull. no. 8: 39-45.

1922: The vegetation of West Greenland — J.Ecol. 10: 87-108, pl. iii-v.

- 1923: Abnormal inflorescences of *Elaeocarpus petiolatus* — Gard.Bull. 3: 11-12.
A botanical reconnaissance upon the Main Range of the Peninsula at Fraser Hill (by I.H.Burkill & R.E.H.) — Gard. Bull. 3: 19-110.
- 1924: Tertiary and Post-Tertiary geology of Mull, Loch Aline and Oban, ch.4: Tertiary Plants from Mull (by A.C.Seward & R.E.H.) — Mem.Geol.Surv.Scotland, 1924.
The vegetation of Gunong Belumut in Johore — Gard.Bull. 3: 246-257, 3 pl.
Observations on the expansion of *Dictyophora indusiata* Desv. — Gard.Bull. 3: 281-283.
Malaysian ferns (summary of paper) — Sing.Natur. no.4: 56.
The common ferns of Singapore — Sing.Natur. no.4: 66-76.
- 1925: Notes on the Flora of Pulau Jong (by G.E.Brooks & R.E.H.) — Sing.Natur. no.5: 47-50.
- 1926: The Keng Wah plant — Straits Times, 26 May 1926.
- 1927: Some old photographs of the Singapore Gardens — Gard. Bull. 4: 47-48, 2 pl.
A new fern from the Malay Peninsula — Gard.Bull. 4: 56-57.
Notes on Malayan ferns — Gard.Bull. 4: 57-69.
A list of mosses collected in the Botanic Gardens, Singapore — Gard.Bull. 4: 88-92.
Nature's Sanctuary in Singapore — Inter-Ocean 8, no.12: 707-712.
- 1928: Spolia Mentawiensia: Pteridophyta — J.Mal.Br.R.As.Soc. 6: 14-23, pl.iv.
Vanda Miss Joaquim — Mal.Natur. 2, no.1: 22-24, pl.
Some aspects of the biology of Malayan orchids (summary of lecture) — Mal.Natur. 2, no.1: 73-75.
- 1929: New species of ferns from the Malay Peninsula — Gard. Bull. 4: 408-410.
- 1930: The genus *Lindsaya* in the Malay Peninsula, with descriptions of two new species — Gard.Bull. 5: 58-71.
Malayan Plants (by A.W.Hamilton & R.E.H.) — J.Mal.Br.R.As. Soc. 8: 318-329.
Krakatau — The Straits Chinese Annual, 1930: 25-32.
- 1931: On periodic leaf-change and flowering of trees in Singapore — Gard.Bull. 5: 173-206.
Aspidium maingayi (Baker) Holttum — Gard.Bull. 5: 207-211.
- 1932: On *Stenochlaena*, *Lomariopsis* and *Teratophyllum* in the Malayan Region — Gard.Bull. 5: 245-313, 12 pl.
Notes on hybridization of orchids (by R.E.H. & C.E.Carr) — Mal.Orch.Review 1, no.2: 13-17.

Hybrid orchids in the Singapore Botanic Gardens — Mal.Orch. Review 1, no.2: 18-20.

History of the Botanic Gardens, Singapore (report of address to Singapore Rotary Club) — Singapore Free Press, 26 May 1932.

1933: A Malay Garden (by A.W.Hamilton & R.E.H.) — J.Mal.Br. R.As.Soc. 11: 139-143.

The effects of the introduction of exotic plants in the Malay Peninsula (by R.E.H. & C.X.Furtado) — Proc.5th Pac.Sci. Congr.: 798-799.

Species Notes: *Vanda tricuspidata*, *Vanda* x *Cooperi*, *Arachnis breviscapa* — Mal.Orch.Review 1, no.3: 3-6.

Progress Report on Singapore hybrids — Mal.Orch.Review 1, no.3: 19-21.

Arachnis alba — Orch.Review 41: 260-261.

Maidenhair ferns — M.A.H.A.Mag. 3: 8-11, 54-62.

On the names of plants — M.A.H.A.Mag. 3: 46-48.

New or interesting ornamental plants — M.A.H.A.Mag. 3: 66-71, 101-103.

Ornamental Trees of Malaya, I, The Casuarinas; II, The *Bignonia* family — M.A.H.A.Mag. 3: 108-111, 186-190.

Morning Flowers — M.A.H.A.Mag. 3: 126-127.

1934: The Waterfall Garden, Penang: Illustrated Guide — Gov.Printer Singapore: pp. 1-50, 11 pl., map.

The ferns of Mt. Kinabalu (by C.Christensen & R.E.H.) — Gard.Bull. 7: 191-324, pl. 51-62.

Spathoglottis plicata, its varieties and hybrids — Mal.Orch. Review 2, no.1: 10-16.

Notes on progress of hybrids in the Botanic Gardens, Singapore — Mal.Orch.Review 2, no.1: 25-27.

Keng Hwah — M.A.H.A.Mag. 4: 271-275, pl.

New or interesting ornamental plants (*Fagraea auriculata*, *Anchusa myosotidiflora*) — M.A.H.A.Mag. 4: 278-279.

Conifers — M.A.H.A.Mag. 4: 341-347.

1935: The tree-ferns of the Malay Peninsula — Gard.Bull. 8: 293-320.

The flowering of Tembusu trees (*Fagraea fragrans* Roxb.) in Singapore, 1928-1935 — Gard.Bull. 9: 74-78.

Ornamental trees of Malaya: The Tembusu — M.A.H.A.Mag. 5: 3-6, pl.

Notes from the Botanic Gardens, Singapore — M.A.H.A.Mag. 5: 21-24, 104-108.

Review: Now Plants get their names (by L.H.Bailey) — M.A.H.A.Mag. 5: 31.

Review: Gardening in East Africa (ed. A.Jex-Blake) — M.A.H.A.Mag. 5: 69-70.

- New or interesting ornamental plants (*Eranthemum purpurascens*, *Artemisia lactiflora*, *Pereskia grandifolia*) — M.A.H.A.Mag. 5: 99-101, 2 pl.
- Crinum lilies* — M.A.H.A.Mag. 5: 160-163.
- New or interesting ornamental plants (*Raphistemma pulchellum*, *Randia macrantha*, *Bougainvillea formosa*) — M.A.H.A.Mag. 5: 164-167, 3 pl.
- Catasetum macrocarpum* — Mal.Orch.Review 2, no.2: 53-56.
- Phalaenopsis Anak Bulan* — Mal.Orch.Review 2, no.2: 57-59.
- The Scorpion Orchids, with descriptions of varieties in cultivation — Mal.Orch.Review 2, no.2: 64-72.
- Bromheadia finlaysoniana* — Mal.Orch.Review 2, no.2: 75-76.
- Notes on *Spathoglottis* — Mal.Orch.Review 2, no.2: 78-79.
- Review: Orchideeën welke in Ned.Indië gekweekt kunnen worden (by P.M.W.Dakkus), 3rd ed. — Mal.Orch.Review 2, no.2: 80-82.
- 1936: Cedric Erroll Carr (obituary) — Kew Bull. 1936, no.10: 531-532.
- Length of daylight and flowering — M.A.H.A.Mag. 6: 4-5.
- Malayan plants for Malayan gardens — M.A.H.A.Mag. 6: 10-16, 47-54.
- Review: Dictionary of the Economic Products of the Malay Peninsula (by I.H.Burkill) — M.A.H.A.Mag. 6: 24-26.
- The pitcher plants of Malaya — M.A.H.A.Mag. 6: 82-87, 2 pl.
- Narcissus flowers in Malaya — M.A.H.A.Mag. 6: 93-94.
- New or interesting ornamental plants (*Malvaviscus conzatii*, *Solandra grandiflora*, *Thevetia peruviana*) — M.A.H.A.Mag. 8: 96-100.
- Review: An Outline of Malayan Agriculture (by D.H.Grist) — M.A.H.A.Mag. 6: 125.
- Review: Cultivated Crop Plants of the British Empire and the Anglo-Egyptian Sudan (tropical and sub-tropical) (by H.C. Sampson) — M.A.H.A.Mag. 6: 126.
- The Iris family in tropical gardens — M.A.H.A.Mag. 6: 158-161, 2 pl.
- Miscellaneous horticultural notes: Bud-variation in *Hibiscus*; Seeds of *Clematis* — M.A.H.A.Mag. 6: 159.
- New Hybrid Orchids raised at Singapore — Mal.Orch.Review 2, no.3: 100-109.
- Some interesting Malayan orchids — Mal.Orch.Review 2, no.3: 121-127.
- Notes of interest to Malayan orchid growers: A white hybrid *Dendrobium*; A Giant *Vanda* Miss Joaquim; *Ansellias*: *Vanda* Imperial; *Dipodium paludosum* — Mal.Orch.Review 2, no.3: 132-134.
- Review: De Vijanden en Ziekten van de Orchideeën op Java en hunne Bestrijding (by C.H.Fransen & L.M.J.Tiggeloven) — Mal.Orch.Review 2, no.3: 135.

Horticulture in Malaya — Amateur Gardening (London), 11 July 1936: 233.

1937: The wild flowers of Malaya — Straits Times Annual, 1937: 33-35.

Notes on Malayan ferns, with descriptions of new species — Gard.Bull. 9: 119-138.

Further notes on *Stenochlaena*, *Lomariopsis* and *Teratophyllum* — Gard.Bull. 9: 139-144.

The genus *Lomagramma* — Gard.Bull. 9: 190-221, pl. 8-13.

Hybrids in the genera *Arachnis* and *Renanthera* — Blumea, Suppl. I: 52-56, pl.v.

Beaumontia — M.A.H.A.Mag. 7: 3-7, 2 pl.

Ornamental trees of Malaya: *Sterculiaceae* — M.A.H.A.Mag. 7: 20-22.

Miscellaneous Horticultural Notes (*Montbretia*; *Cannas* from seed; *Bauhinia corymbosa*; Violets; the Lettuce Tree) — M.A.H.A.Mag. 7: 23-25.

Review: Garden Book of Barbados — M.A.H.A.Mag. 7: 49-50.

New or interesting ornamental plants (*Adenium coetaneum*, *Phaleria blumei*, *Passiflora quadriglandulosa*, *Quisqualis indica*) — M.A.H.A.Mag. 7: 57-62.

Miscellaneous Horticultural Notes (Seedlings of *Holmskioldia*; Perennial Phlox; The Canton Water-pine; Tamarisk plants; *Kochia*) — M.A.H.A.Mag. 7: 70-72.

The Bungor or Queen's Flower (*Lagerstroemia flos-reginae*) and allied species in Malaya — M.A.H.A.Mag. 7: 101-105.

New or interesting ornamental plants (*Bauhinia kockiana*, *Saraca taipingensis*, *Paurotis wrightii*) — M.A.H.A.Mag. 7: 114-117.

Miscellaneous Horticultural Notes (The "Japanese Canna"; Poisonous garden plants; Flowering of *Quisqualis*) — M.A.H.A.Mag. 7: 118-119.

The genus *Stigmaphyllon* — M.A.H.A.Mag. 7: 153-155, 2 pl.

The names of garden plants — M.A.H.A.Mag. 7: 164-168.

Miscellaneous Horticultural Notes (The colour of *Hydrangeas*; A new poison for snails and slugs; Japanese bamboos; Varieties of *Poinciana*; *Tristellateia*) — M.A.H.A.Mag. 7: 169-175.

1938: The Ecology of Tropical Pteridophytes. Chapter XII in Verdoorn: Manual of Pteridology (Nijhoff, The Hague): 420-450.

Abstract: Leaf-fall in a non-seasonal climate (Singapore) — Proc.Linn.Soc.Session 150: 78-81.

A re-definition of the genus *Teratophyllum* — Gard.Bull. 9: 355-362, pl. 28-30.

The genus *Jatropha* — M.A.H.A.Mag. 8: 3-8.

Miscellaneous Horticultural Notes (*Cratoxylon formosum*; *Stephanotis floribunda*) — M.A.H.A.Mag. 8: 26-27, pl.

- Glossary of plant names — M.A.H.A.Mag. 8: 51-63.
 Bougainvilleas — M.A.H.A.Mag. 8: 69-72.
 Miscellaneous Horticultural Notes (Four O'Clock or Marvel of Peru; the genus *Turnera*) — M.A.H.A.Mag. 8: 73, 76-77.
 Miscellaneous Horticultural Notes (*Eranthemum nervosum*) — M.A.H.A.Mag. 8: 118-119.
 Dr. J.J.Smith — Mal.Orch.Review 2, no.4: 143.
Epidendrum radicans — Mal.Orch.Review 2, no.4: 144-146.
 Singapore Hybrids — Mal.Orch.Review 2, no.4: 147-154.
 The Cultivated Bougainvilleas — Gard.Chron. ser.III, 103: 164-165.
- 1939: The genus *Lomariopsis* in Madagascar and the Mascarene Islands — Notul.Syst.Paris 8: 48-62.
 New species of *Lomariopsis* (from tropical America & W.Africa) — Kew Bull. no.10, 1939: 613-627.
 Some hybrid Orchids, natural and artificial — Bull.Jard.Bot. Btzg III, 16: 113-115.
 New or interesting ornamental plants (*Jasminum rex*, *Clerodendron macrosiphon*, A new Composite (*Melampodium*), *Asclepias curassavica*, *Tecomaria capensis*) — M.A.H.A.Mag. 9: 2-6, 2 pl.
 Flowers of different colours on the same plant — M.A.H.A. Mag. 9: 13.
 Rhododendrons in Malaya — M.A.H.A.Mag. 9: 34-37.
 New or interesting ornamental plants (*Gustavia marcgraafiana*, *Adenium coetaneum*, *Browallia elata* and *speciosa*) — M.A.H.A. Mag. 9: 40-42, 2 pl.
 The Singapore Flower Show 1939 — M.A.H.A.Mag. 9: 63-65.
 New or interesting ornamental plants (*Mina lobata*, The Hong Kong tree-*Bauhinia*, *Victoria regina*, Henna) — M.A.H.A. Mag. 9: 68-72, 2 pl.
 Hedges — M.A.H.A.Mag. 9: 84-85.
 Orchid Flowers from Singapore — M.A.H.A.Mag. 9: 86-87.
 Hibiscus hybrids — M.A.H.A.Mag. 9: 88-89.
 New or interesting ornamental plants (*Lobelia dresdenensis*, A yellow *Crossandra*, The white-flowered *Brunfelsia*) — M.A.H.A.Mag. 9: 124-129.
 Miscellaneous Horticultural Notes (Propagation of annuals from cuttings; Hyacinths in the tropics) — M.A.H.A.Mag. 9: 138-139.
- 1940: The Fern-genus *Diplazium* in the Malay Peninsula — Gard. Bull. 11: 74-108.
 Periodic Leaf-change and Flowering of Trees in Singapore. II — Gard.Pull. 11: 119-162.
 Green vegetables — M.A.H.A.Mag. 10: 18-19.
 Grow your own vegetables (pamphlet published by Dept. of Information, Govt. of Singapore).

- Long Beans (by C.X.Furtado & R.E.H.) — M.A.H.A.Mag. 10: 20-22.
- The response of plants to climate in Singapore — M.A.H.A. Mag. 10: 27-29.
- Miscellaneous Horticultural Notes (Hydrangeas in open ground; Cineraria at Cameron Highlands; Pine trees in Singapore) — M.A.H.A.Mag. 10: 34-35.
- Orchid Hybrids in Malaya — M.A.H.A.Mag. 10: 41-46.
- The Chinese mustards and cabbages grown in Singapore (by C.X. Furtado & R.E.H.) — M.A.H.A.Mag. 10: 47-51.
- New or interesting ornamental plants (A new Bignonia, *Petrea rugosa*, *Dacrydium*, *Tecoma stans*) — M.A.H.A.Mag. 10: 55-60.
- Hippeastrums, or Red Lilies — M.A.H.A.Mag. 10: 71.
- Perennial Beans — M.A.H.A.Mag. 10: 83-86.
- Miscellaneous Horticultural Notes (Cabbages from cuttings; Plumerias from seed; seedling Rhododendrons; Making a garden in a clay soil) — M.A.H.A.Mag. 10: 98-101.
- Two *Arachnis-Vanda* hybrids — Mal.Orch.Review 3, no.1: 3-9.
- Four new *Vanda* hybrids — Mal.Orch.Review 3, no.1: 10-19.
- Vanda cooperi* x *Marguerite Maron* — Mal.Orch.Review 3, no.1: 20-22.
- Arachnis* hybrids — Mal.Orch.Review 3, no.1: 22-26.
- Arachnis-Renanthera* hybrids — Mal.Orch.Review 3, no.1: 26-28.
- Oncidium Golden Shower* — Mal.Orch.Review 3, no.1: 29-31.
- Dendrobium Helen Park* — Mal.Orch.Review 3, no.1: 32-33.
- Notes on the behaviour of hybrid orchid seedlings — Mal. Orch.Review 3, no.1: 40-43.
- Some more *Epidendrums* — Mal.Orch.Review 3, no.1: 43-47.
- Species Notes — Mal.Orch.Review 3, no.1: 47-50.
- Malayan Pitcher-plants — Mal.Nat.J. 1: 35-44.
- 1941: The *Bignonia* family in Malayan gardens — M.A.H.A.Mag. 11: 3-11.
- The hybridization of tropical garden plants — M.A.H.A.Mag. 11: 22-29.
- Allamandas in Malayan gardens — M.A.H.A.Mag. 11: 54-58.
- Notes on *Bougainvilleas* — M.A.H.A.Mag. 11: 63-68.
- New or interesting ornamental plants (*Thunbergia mysorensis*, A new *Russellia*, The Moreton Bay Chestnut) — M.A.H.A.Mag. 11: 71-76.
- Rhododendron* seedlings in Singapore — M.A.H.A.Mag. 11: 93-95.
- Plant Hormones — M.A.H.A.Mag. 11: 107-110.
- Travel Notes — M.A.H.A.Mag. 11: 145-150.
- Notes on *Vanda* hybrids — Mal.Orch.Review 3, no.2: 62-66.
- Arachnis* hybrids and varieties — Mal.Orch.Review 3, no.2: 67-69.

- Some *Dendrobium* hybrids raised in Singapore — *Mal.Orch.Rev.* 3, no.2: 76-80.
- Vanda Madame E.M.E.Dinger — *Mal.Orch.Review* 3, no.2: 87-95.
- Cultivation notes — *Mal.Orch.Review* 3, no.2: 96-97.
- Spathoglottis*: notes on species and new hybrids — *Mal.Orch.Review* 3, no.2: 98-104.
- Malayan Orchids — *Mal.Nat.J.* 1: 101-109.
- 1946: The classification of Malayan Bamboos — *J.Arn.Arb.* 27: 340-346.
- 1947: New species of Vascular Plants from the Malay Peninsula — *Gard.Bull.* 11: 267-298.
- The Singapore Botanic Gardens during 1941-1946 — *Gard.Bull.* 11: 263-265.
- Mr. J.C.Nauen (Obituary) — *Gard.Bull.* 11: 266.
- The need for international scientific cooperation in S.E.Asia — *J.South Seas Soc.Sing.* 8: 8-10.
- The present state of our knowledge of the Flora of Malaya — *British Malaya* 22: 310-312.
- The Malayan Slipper Orchids — *Mal.Nat.J.* 2: 19-25.
- The genera *Renanthera*, *Arachnis* and *Vandopsis* — *Orchidologia Zeylanica* 14: 2-6.
- A revised classification of Leptosporangiate Ferns — *J.Linn.Soc.Bot.* 53: 123-158.
- 1948: The Spikelet in Cyperaceae — *Bot.Review* 14: 525-541.
- New orchid hybrids raised in Singapore — *Orch.Review* 56: 165-166.
- Plants and Climate in Malaya — *Mal.Nat.J.* 3: 3-9.
- The Resam ferns of Malaya — *Mal.Nat.J.* 3: 58-66.
- 1949: The selection of type species of some old genera of ferns — *Gard.Bull.* 12: 303-306.
- The status of botanical literature published before 1753 (by R.E.H. & C.X.Furtado) — *Gard.Bull.* 12: 307-310.
- Gregarious flowering of the terrestrial orchid *Bromheadia finlaysoniana* — *Gard.Bull.* 12: 295-302.
- Flora Malesiana — *Gard.Bull.* 12: 408-409.
- The Malayan Scorpion Orchids — *Mal.Nat.J.* 4: 85-92.
- The classification of ferns — *Biol.Reviews* 24: 269-296.
- On variability in wild orchids and its implications — *Chron.Nat.* 105: 111-113.
- Recent hybrids raised in Singapore — *Mal.Orch.Review* 4, no. 1: 7-15.
- Freedom of flowering in orchids in Singapore — *Malayan Orch.Review* 4, no.1: 15-17.
- Orchid pests and their control — *Mal.Orch.Review* 4, no.1: 20-22.
- Euanthe sanderiana* — *Mal.Orch.Review* 4, no.1: 22-23.

- Coelogyne Burfordiense — Mal.Orch.Review 4, no.1: 23-24.
 The cultivation of Vanda-Arachnis hybrids — Mal.Orch.Review 4, no.1: 24-25.
 Sanders' List of Orchid Hybrids to 1.1.1946 (Review) — Mal.Orch.Review 4, no.1: 28-32.
 Selected list of orchid hybrids — Mal.Orch.Review 4, no.1: 32-39.
 Malayan Plants (published in Malay, in Jawi script) — Utusan Malayu, April: 201-211.
 The fern-genus Heterogonium Presl — Sarawak Mus.J. 5: 156-166.
- 1950: Further notes on the fern-genus Heterogonium Presl — Reinwardtia 1: 27-31.
 An introduction to the study of Malayan Flowers — Girl Guides Assn, Malaya: 1-35.
 Horticulture in Singapore — J.R.Hort.Soc. 75: 364-366.
 A new Vanda from Kuching — Sarawak Mus.J. 5: 389-390.
 The Zingiberaceae of the Malay Peninsula — Gard.Bull. 13: 1-249, fig. 1-33.
 Cyripediums — Mal.Orch.Review 4, no.2: 57-65.
 Review: Orchids, their description and cultivation (by C.H. Curtis) — Mal.Orch.Review 4, no.2: 79.
 The jungle's largest flower: Bunga pakma — Straits Times, 3 Oct. 1950: illust.
 Bukit Timah Forest: for posterity? — Straits Times, 29 March 1950.
 Reflections on the seasonal behaviour of two common birds in Singapore — Mal.Nat.J. 5: 96-97.
- 1951: Pot Plant Cultivation in Singapore — Sing.Gard.Soc.: 1-42.
 The fern-genus Pleocnemia Presl — Reinwardtia 1: 171-189.
 The fern-genus Arcypteris Underwood (Dictyopteris Presl sensu Fée) — Reinwardtia 1: 191-196.
 A new Malayan Vanilla — Gard.Bull. 13: 251-253.
 The Marantaceae of Malaya — Gard.Bull. 13: 254-296.
 Orchids as cultivated plants in southern Asia — J.Genet.& Pl.Breeding 11: 83-87.
 Ophioglossum pendulum — Brit.Fern Gaz. 8, no.1: 18-20.
 A curiosity at Labrador (Dipteris conjugata) — Sing.Free Press, 31 March 1951.
- 1952: Hybridization in Sarcanthinae — Orch.J. 1: 58-61.
 Porphyroglottis — Orch.J. 1: 117.
 Dipodium — Orch.J. 1: 138-139.
 Phalaenopsis in the Malay Peninsula — Orch.J. 1: 368-370.
 Vegetative habit in the genus Eulophia (Orchidaceae) — Proc. R.Soc.Queensl. 62: 57-59.
 The possibilities of plant breeding in the ginger family — J.South Seas Soc.Sing.: 4 pp.

- 1953: Gardening in the Lowlands of Malaya (Book) — Straits Times Press Ltd., Singapore.
- A Revised Flora of Malaya, vol.1, Orchids of Malaya (Book) — Govt.Printer, Singapore.
- A new Malayan Athyrium — Kew Bull. no.4, 1953: 545.
- A Malayan Blow-pipe Bamboo — Kew Bull. no.4, 1953: 493-496.
- Three new orchids from Malaya — Gard.Bull. 14: 4-7.
- A new fern from Malaya (Athyrium angustipinna) — Gard.Bull. 14: 8.
- Evolutionary Trends in an Equatorial Climate — Symp.Soc. Exper.Biol. VII, Evol.: 159-173.
- Malayan Necklace Orchids — Mal.Nat.J. 7: 163-166.
- Cycas in Malaya — Mal.Nat.J. 8: 1-3.
- The genus Dendrobium from a Singapore grower's standpoint — Orch.J. 2: 355-357.
- Notes on Malayan species of Bulbophyllum — Orch.J. 2: 411-414.
- Some Thoughts on Scientific and Religious Truth — In "Conceptus of Religions and Philosophies" (Pure Life Society, Kuala Lumpur): 97-101.
- 1954: Adinandra Belukar — Mal.J.Trop.Geogr. 3: 27-32.
- The classification of ferns: the present position and some thoughts on future developments — Int.Bot.Congr.Paris sect.4: 1-8.
- Plant Life in Malaya (Book) — Longmans, Green & Co. Ltd., London.
- A Revised Flora of Malaya, vol.2, Ferns of Malaya (Book) — Govt.Printer, Singapore.
- 1955: Some additional species of Heterogonium — Reinwardtia 3: 269-274.
- Henry Nicholas Ridley - Centenarian — Malaya, Dec.1955: 15-17, 33.
- Henry Nicholas Ridley — M.A.H.A.Mag. 12, no.4: 3-6.
- The cultivated Bougainvilleas. I — M.A.H.A.Mag. 12, no.2: 2-10.
- The cultivated Bougainvilleas. II. B. x Buttiana, its varieties and hybrids — M.A.H.A.Mag. 12, no.3: 2-11.
- The cultivated Bougainvilleas. III. The varieties of B. glabra — M.A.H.A.Mag. 12, no.4: 25-36.
- Notes on pollination of orchids of the genus Plocoglottis — Mal.Nat.J. 9: 111-115.
- Grammatophyllum wallisii and G. pantherinum — Orch.Review 63: 151-153.
- Growth-habits of Monocotyledons - Variations on a Theme — Phytomorphology 5: 399-413.
- 1956: The bamboo-genera Nastus and Chloothamnus — Kew Bull. 10: 591-594.
- Two name-changes for Malayan bamboos — Kew Bull. 11: 206:

- On the identification of the common hedge-bamboo of South-East Asia — Kew Bull. 11: 207-211.
- Racemobambos, a new genus of Bamboos — Gard.Bull. 15: 267-273.
- Two new bamboos from the Malay Peninsula — Gard.Bull. 15: 274-275.
- The typification of the generic name Bambusa and the status of the name Arundo bambos Linn. — Taxon 5: 26-28.
- The type-species of the genus Gigantochloa and some other notes on the genus — Taxon 5: 28-30.
- The type specimen of Bambos arundinacea Retzius — Taxon 5: 65-67.
- The cultivated Bougainvilleas. IV. B. spectabilis and its varieties — M.A.H.A.Mag. 13: 13-22.
- The cultivated Bougainvilleas. V. The recorded hybrids — M.A.H.A.Mag. 13: 66-74.
- Globba winitii — M.A.H.A.Mag. 13: 151-152.
- Additional notes on Bougainvillea — M.A.H.A.Mag. 13: 161.
- Bougainvillea — R.H.S. Dict. of Gardening, Suppl.: 163.
- The classification of bamboos — Phytomorphology 6: 73-89.
- 1957: Florae Malesianae Praecursores. XVI. On the taxonomic subdivision of the Gleicheniaceae, with descriptions of new Malaysian species and varieties — Reinwardtia 4: 257-280.
- Morphology, growth-habit and classification in the family Gleicheniaceae — Phytomorphology 7: 168-184.
- Bougainvillea 'Mary Palmer' — M.A.H.A.Mag. 14: 13.
- Further notes on Bougainvillea — M.A.H.A.Mag. 14: 58.
- Henry Nicholas Ridley, C.M.G., F.R.S., 1855-1956 — Taxon 6: 1-6.
- Ridleyara, a new hybrid genus derived from Arachnis, Vanda and Trichoglottis — Mal.Orch.Review 5, no.1: 2-5.
- A Revised Flora of Malaya, vol.2, Orchids of Malaya, 2nd ed. (see 1953) — Govt.Printer, Singapore.
- Malayan Orchid Hybrids (by M.R.Henderson & G.H.Addison) (Review) — J.R.Hort.Soc. 82: 314.
- Tropical Plants and their cultivation (by L.Bruggeman) (Review) — J.R.Hort.Soc. 82: 363-364.
- 1958: Tropical ferns of the Gleichenia family — Discovery, Aug.1958: 339-342.
- Notes on Malayan ferns, with descriptions of a new genus and new species — Kew Bull. 13: 447-455.
- Bamboos of the Malay Peninsula — Gard.Bull. 16: 1-135.
- Some problems facing the new International Orchid Commission — Mal.Orch.Review 5, no.3: 65-67.
- Gloriosa Hybrids — M.A.H.A.Mag. 15: 75-77.
- Vanda or Vandanthé? A taxonomist replies — Orch.Review 66: 245-246.

- Evolutionary trends in the Sarcanthine Orchids — Proc.2nd World Orch.Conf.: 40-48 (repr. Amer.Orch.Soc.Bull. 28, 1959, 747-754).
- Three parasitic flowering plants — Straits Times Annual for 1959: 66-67.
- For as in Adam all die — Friends Quarterly 12: 121-126.
- 1959: Introductory note; List of Malaysian Pteridophytes; The morphology of ferns; General key no.1 to Pteropsida; General key no.2 to Pteropsida; Keys to the genera of Pteropsida; Bibliography — Fl.Males. ii 1: i-xxiii.
- Gleicheniaceae — Fl.Males. ii 1: 1-36, 16 fig.
- Schizaeaceae — Fl.Males. ii 1: 37-61, 15 fig.
- Notes on Taxonomy and Nomenclature in the genus *Lygodium* (Schizaeaceae) (by A.H.G.Alston & R.E.H.) — Reinwardtia 5: 11-22.
- Orchids, Gingers and Bamboos: Pioneer work at the Singapore Botanic Gardens and its significance for botany and horticulture — Gard.Bull. 17: 190-194.
- Some notes on vegetative characters of ferns — Brit.Fern Gaz. 9, pt.1: 2-4.
- Review: The Orchids: a Scientific Survey (ed. C.L.Withner) — Gard.Chron. ser.III, 146: 105.
- Review: Proceedings of the 2nd World Orchid Congress — R. Hort.Soc.J. 84: 344.
- 1960: Henry Nicholas Ridley — J.Mal.Br.R.As.Soc. 33: 104-109.
- The ecology of tropical epiphytic orchids — Proc.3rd World Orch.Conf.: 196-203.
- Two problem-species: *Schizoloma cordatum* Gaud. and *Syngramma pinnata* J.Sm. — Amer.Fern J. 50: 109-113.
- I.H.Burkill in Malaya (by C.X.Furtado & R.E.H.) — Gard.Bull. 17: 350-356.
- Vegetative characters distinguishing the various groups of ferns included in *Dryopteris* of Christensen's Index Filicum, and other ferns of similar habit and sori — Gard. Bull. 17: 361-367.
- The genera *Sarcochilus* R.Br. and *Pteroceras* Hassk. (Orchidaceae), with notes on other genera which have been included in *Sarcochilus* — Kew Bull. 14: 263-276.
- Review: The Orchids: a Scientific Survey (ed. C.L.Withner) — R.Hort.Soc.J. 85: 242.
- Review: Melchior Treub (by H.H.Zeijlstra) — R.Hort.Soc.J. 85: 243.
- Review: Beautiful Indian Orchids (by B.N.Ghose) — R.Hort. Soc.J. 85: 533.
- 1961: Plant Taxonomy as a Scientific Discipline — Advanc. Sci. 18, no.73: 1-9.

Superfluous Nonsense — Taxon 10: 33-34.

Some thoughts from the past — Nat.Cons.in West.Malaysia: 14-16 (Mal.Nat.Soc.).

The Pineapple (by J.L.Collins) (Review) — Span 4: 97.

Studies in the Flora of Thailand: Filicinae — Dansk Bot.Ark. 20: 11-36.

J.A.le Doux — Gard.Bull. 18: 328-329.

The Morphology and Classification of the Tree Ferns (by R.E.H. & U.Sen) — Phytomorphology 11: 406-420.

Alocasia marshallii Bull. — Gard.Chron. ser.III, 150: 217.

Pteridium (Bracken) in the Malay Peninsula — Mal.Nat.J. 15: 75-77.

1962: New species of Tree-ferns (Cyathea Sm. and Dicksonia L'Hérit.) — Kew Bull. 16: 51-64.

Articles 7, 11 and 63 — Taxon 11: 213-214.

New species of Malayan ferns — Blumea 11: 529-534.

Problems of publicity, with special reference to the need for popular books dealing with local plants — Proc.9th Pac. Sci.Congr. 4: 146-147.

The status of some hybrid names — Mal.Orch.Review 7, no.1: 20-21.

The mis-used name Stauroopsis — Orch.Review 70: 140-142.

Orchid-growing in Singapore — Orch.Review 70: 268-270, 335-337.

Saccolabium and Rhynchostylis — Orch.Review 70: 324-326 (repr. Amer.Orch.Soc.Bull. 32, 1963, 26-28).

Revision of the genus Pandanus, part 11 (by R.E.H. & H.St. John) — Pac.Sci. 16: 218-237.

Review: Flowering Trees of the world for tropics and warm countries (by E.A.Menninger) — R.Hort.Soc.J. 87: 384.

1963: Cyatheaceae — Fl.Males. ii 1: 65-176.

An orchid new to Malaya (Dipodium conduplicatum?) — Mal. Orch.Review 7, no.3: 81.

Species names in the genus Doritis — Orch.Review 71: 154-156.

Notes on cultivated orchids (by R.E.H. & V.S.Summerhayes) — Orch.Review 71: 227-228.

1964: The tree-ferns of the genus Cyathea in Australasia and the Pacific — Blumea 12: 241-274.

Orchid Taxonomy and Taxonomists in Malaysia — Proc.4th World Orch.Conf.: 255-264.

The genus Cyathea (sensu lato) in Malaysia — Amer.Fern J. 54: 1-9.

The implications for fern-taxonomy of a re-united family Cyatheaceae — 10th Int.Bot.Congr., Abstracts: 112 (no. 257).

- Evolutionary trends in Leptosporangiata ferns — 10th Int. Bot. Congr., Abstracts: 141 (no. 321).
- Dendrobium bigibbum* and *D. phalaenopsis* — *Orch.Review* 72: 324-325.
- A new *Phalaenopsis* from Sarawak (*P. cochlearis*) — *Orch.Review* 72: 408-409.
- Evidence of relationship between genera — *Amer.Orch.Soc. Bull.* 33: 119.
- On "wide" crosses in orchids — *Amer.Orch.Soc.Bull.* 33: 199.
- 1965: Cytological observations on ferns from New Guinea, with descriptions of new species (by R.E.H. & S.K.Roy) — *Blumea* 13: 129-139, 9 fig.
- Tree-ferns of the genus *Cyathea* in Java — *Reinwardtia* 7: 5-8.
- Cultivated species of the orchid-genus *Doritis* Lindl. — *Kew Bull.* 19: 207-211.
- Tree-ferns of the genus *Cyathea* Sm. in Asia (excluding Malaysia) — *Kew Bull.* 19: 463-487.
- Notes on the names of some species of *Dendrobium* — *Orch.Review* 73: 87-88.
- A confusion of names: *Epigeneium*, *Sarcopodium*, *Dendrobium lyonii* and *D. acuminatum* — *Orch.Review* 73: 249-251.
- Species names in the genus *Doritis* — *Mal.Orch.Review* 8: 4-6.
- I.H.Burkill (Obituary) — *Nature* 206: 871.
- Review: Tropical and Subtropical Plant Ecology — *Nature* 207: 117-118.
- The evolution of the vascular system in ferns, with special reference to dorsiventral rhizomes — *Phytomorphology* 14: 477-480.
- British Ferns in a World Perspective — *Brit.Fern Gaz.* 9: 205-212.
- New cytological records for *Cystodium* and *Dicksonia* (by S.K. Roy & R.E.H.) — *Amer.Fern J.* 55: 35-37.
- Cytological observations on ferns from southern Asia (by S.K. Roy & R.E.H.) — *Amer.Fern J.* 55: 154-158.
- Cytological and morphological observations on *Metaxya rostrata* (HBK) Presl (by S.K.Roy & R.E.H.) — *Amer.Fern J.* 55: 158-164.
- Distribution of some of the more primitive ferns of Mt. Kinabalu — *Proc.R.Soc. B* 161: 38-48.
- Phalaenopsis sumatrana* and *P. lueddemanniana* — *Amer.Orch. Soc.Bull.* 34: 624.
- I.H.Burkill (Obituary) — *Malaysia.*
- Studies in the Flora of Thailand 33: Filicinae excl. *Ophioglossum* (second list) — *Dansk Bot.Ark.* 23: 227-244.
- A Revised Flora of Malaya, vol.1, Orchids of Malaya, 3rd ed. (see 1953) — Govt.Printer, Singapore.

- 1966: Review: Encyclopaedia of Cultivated Orchids (by A.D. Hawkes) — R.Hort.Soc.J. 91: 94.
The genus *Kingiella* — Orch.Review 74: 128-129.
A new *Chiloschista* from Malaya — Orch.Review 74: 146-147.
Duplication of the name *Cymbidium roseum* — Orch.Review 74: 272-273.
A natural *Phalaenopsis* hybrid: *x thurstonii* — Orch.Review 74: 290-291.
The genera *Lomariopsis*, *Teratophyllum* and *Lomagramma* in the islands of the Pacific and Australia — Blumea 14: 215-223.
Two new species of *Lomagramma* from New Guinea — Blumea 14: 224.
The genus *Arthropteris* J.Sm. in Malesia — Blumea 14: 225-229.
Review: Angiosperms, Past and Present (by A.J.D.Meeuse) — Blumea 14: 249-250.
Florae Malesianae Praecursores XLIV. The fern-genus *Elaphoglossum* in Malesia, with descriptions of new species — Blumea 14: 317-326.
Four new species of ferns from New Guinea — Blumea 14: 327-329.
Statement on superfluous names (Art.63) at 10th Int.Bot. Congr. 1964 (Nomenclature Section) — Regnum Vegetabile 44: 54-55.
The idea of a genus *Cyperorchis* — Mal.Orch.Review 8, no.3: 88-89.
Introduction on Pteridophyta, and all Pteridophyte entries, in J.C.Willis, A Dictionary of the Flowering Plants and Ferns, 7th ed., ed. by H.K.Airy Shaw — Cambridge Univ. Press.
New ferns from Malesia — Kew Bull. 20: 455-460.
Some plants new or rare to Thailand with descriptions of new species: Filicinae — Dansk Bot.Ark. 23: 308-309.
- 1967: The Tree-ferns of Malaya (by R.E.H. & B.Molesworth Allen) — Gard.Bull. 22: 41-51.
Isaac Henry Burkill 1870-1965 — Gard.Bull. 22: 67-70.
Review: The Bamboos; a New Perspective (by F.A.McClure) — New Phytologist 66: 133-135.
John Smith of Kew — Brit.Fern Gaz. 9, pt.8: 330-334.
The Bamboos of New Guinea — Kew Bull. 21: 263-292.
Botanical Report of the Noona Dan Expedition, Filicinae — Dansk Bot.Ark. 25: 35-52.
- 1968: Review: Living Plants of the World (by L. & M.Milne) — J.R.Hort.Soc. 93: 308.
Proposal to conserve the name *Thelypteris* Schmidel against *Thelypteris Adanson* — Taxon 17: 330-331.

- Review: Australian Sarcanthinae (by A.W.Dockrill) — Orch. Review 76: 234-235.
- Typification of the generic names *Gymnocarpium* and *Phegopteris* — Taxon 17: 529-530.
- A re-definition of the genus *Taenitis* Willd. — Blumea 16: 87-95.
- A Revised Flora of Malaya, vol.2, Ferns of Malaya, 2nd ed. (see 1954), with new App. of add. species and corrigenda. Comparative Morphology, Taxonomy and Evolution — Phytomorphology 17: 36-41.
- The response of plants to climate in Singapore (summary of talk to Tropical Ecology Group on 11.3.1968) — J.Ecol. 56: 5.
- 1969: Review: Flora of West Tropical Africa, ed.2, vol.3, pt. 1 — Orch.Review 77: 36-37.
- A commentary on some type specimens of ferns in the Herbarium of K.B.Presl — Novit.Bot.Inst.Bot.Univ.Carol.Prag. 1968: 3-57.
- Studies in the family Thelypteridaceae. I. The genera *Phegopteris*, *Pseudophegopteris* and *Macrothelypteris* — Blumea 17: 5-32.
- A new genus and new species of Malesian Orchids — Gard.Bull. 25: 105-108.
- Review: Anatomy of the Monocotyledons vol.III (by P.B.Tomlinson) — New Phytologist 68: 1249-1251.
- On the significance of some name-changes in ferns — Brit. Fern Gaz., 10, pt.2: 92-96.
- 1970: Review: Orchids of Australia (by W.H.Nicholls) — R. Hort.Soc.J. 95: 327.
- Studies in the family Thelypteridaceae. 2. A comparative study of the type species of *Thelypteris* Schmidel, *Cyclosorus* Link and *Ampelopteris* Kunze (by R.E.H., U.Sen & D. Mittra) — Blumea 18: 195-215.
- Review: Anatomy of the Monocotyledons vol.IV (by D.F.Cutler) — New Phytologist 69: 1192-1193.
- H.N.Ridley's works on ferns — Taxon 19: 627-629.
- The historical significance of Botanic Gardens in S.E.Asia — Taxon 19: 707-714.
- The genus *Orchidantha* (Lowiaceae) — Gard.Bull. 25: 239-246.
- 1971: The family names of ferns — Taxon 20: 527-531.
- Typification of the fern-genus *Christella* Leveille — Taxon 20: 533-535.
- New Species of Thelypteridaceae from India, Ceylon and Burma (by R.E.H. & P.Chandra) — Kew Bull. 26: 79-82.
- Studies in the family Thelypteridaceae. 3. A new system of genera in the Old World — Blumea 19: 17-52.
- The genus *Stenochlaena* J.Sm., with description of a new species — Amer.Fern J. 61: 119-123.

A biologist's approach to religious thought — *The Seeker*,
spring 1971: 4-18.

Metaphysics and Mysticism — *Friends Quarterly* 17: 25-27.

1972: *Tainia hookeriana* and *T. penangiana*: another view —
Amer.Orch.Soc.Bull. 41: 29-30.

A new Orthodoxy? — *Friends Quarterly* 17: 223-226.

Comment of an article published by W.H.Otaguro in Honolulu on
Vanda Miss Joaquim — *Orch.Review* 80: 167-168.

Review: Schlechter's *Die Orchideen*, 3rd ed., parts 1-3 —
Orch.Review 80: 215.

Morphology and anatomy of the genera *Davallia*, *Araiostegia*
and *Davallodes*, with a discussion on their affinities (by
T. & U.Sen & R.E.H.) — *Kew Bull.* 27: 217-243.

The genus *Davallodes* — *Kew Bull.* 27: 245-249.

Studies in the family *Thelypteridaceae* IV. The genus *Pro-*
nephrum Presl — *Blumea* 20: 105-126.

1973:

Some comments on the ferns of Mount Kinabalu — in *Mount*
Kinabalu Field Trip April/May 1973, *Biol.Sci.Soc.*, Univ.of
Singapore.

Foreword to: *Genera of Bamboos native to the New World* (by
F.A.McClure) — *Smithson.Contr.Bot.* no.9: v-viii.

Review: *Systematics of the Onocleoid ferns* (by R.M.Lloyd) —
Kew Bull. 28: 157-159.

Review: *Systematics of the Neotropical species of Thelypteris*
sect. *Cyclosorus* (by Alan Reid Smith) — *Kew Bull.* 28:
163-164.

On the typification of *Mertensia* Willd. non Roth (*Gleichenia-*
ceae) with notes on *Sticherus* Presl and *Hicriopteris* Presl
— *Taxon* 22: 447-450.

Posing the Problems, pp. 1-10 in *The Phylogeny and Classifi-*
cation of the Ferns (ed. Jermy, Crabbe & Thomas) — *J.Linn.*
Soc.Bot. 67 Suppl. I.

The family *Thelypteridaceae* in the Old World, pp. 173-189 in
Jermy et al., op.cit.

The identity of three type specimens in the Willdenow Herba-
rium — *Amer.Fern J.* 63: 81-84.

Studies in the family *Thelypteridaceae* V. The genus *Pneumato-*
pteris Nakai — *Blumea* 21: 293-325.

A new bamboo from Mt. Kinabalu — *Gard.Bull.* 26: 211.

Review: Schlechter's *Die Orchideen*, 3 Aufl. 4 Lieferung —
Orch.Review 81: 324

1974: Studies in the family *Thelypteridaceae* VI. The genera
Haplodictyum and *Nannothelypteris* — *Kalikasan* 2: 58-68.

Manuscript notes and drawings by C.E.Carr — *Kew Bull.* 29:
18.

Zingiberales — *Encyclopaedia Britannica*.

- Thelypteridaceae of Africa and adjacent Islands — J.S.Afr. Bot. 40: 123-168.
- Additions to the Fern Flora of Java — Reinwardtia 8: 499-501.
- The genus *Trigonospora* (Thelypteridaceae) in Malesia — Reinwardtia 8: 503-507.
- Malayan and Australian nest-ferns — J.R.Hort.Soc. 99: 348-349, fig. 159.
- Studies in the family Thelypteridaceae VII. The genus *Chingia* — Kalikasan 3: 13-28.
- The fern-genus *Pleocnemia* — Kew Bull. 29: 341-357.
- Proposal to add a new Principle to the Code — Taxon 23: 648-649.
- 1975: New Philippine ferns — Kalikasan 3: 196-197.
- Studies in the family Thelypteridaceae VIII. The genera *Mesophlebion* and *Plesioneuron* — Blumea 22: 223-250.
- Studies in the family Thelypteridaceae IX. The genus *Sphaerostephanos* in the Philippines — Kalikasan 4: 47-68.

Number of titles listed so far: 419.

Postscript — Dr. R.E.Holttum, in his capacity as Editor of Flora Malesiana Series II, wrote in this Bulletin some notes and reports not listed above, but of considerable interest, notably on the plan of Series II (page 492-493 in 1956, and 640-641 in 1959), instructions for collecting tree ferns (page 567 in 1957), on his re-arrangement of the fern collection at Bogor (page 639-640 in 1959), and travel reports (page 1885 in 1971, page 2148-2149 in 1974).

MARIA JOHANNA KRUSEMAN, BY HERSELF

When by accident I learnt about Mrs. Van Steenis's birthday, I suspected nothing. Only later did I hear that this 1974 birthday was her 70th. I had thought her younger. In view of the renown of her biographical and bibliographical work, I asked her if I might write a biographical paper about herself, this being a good occasion. She did not consent immediately, but after some time, her husband handed me a list of her publications. This seemed hopeful. When I suggested that I interview her, he replied that she was assembling recollections, and that after a fortnight or so I might come to see her. The day before our appointment, I received from her a text in Dutch, which seemed a first-rate piece of biographical craftsmanship. During the interview she gave me permission to work out the text in English, which I accordingly did, extending and clarifying a few points, adding an occasional note; this version was gone over by her, and so it is given here. She is on two photographs in 'The Mountain Flora of Java' (frontispiece and photo 11); I have asked her for a photograph of the time that Volume One of the Cyclopaedia was published, but a sharp one was not available; the one reproduced here dates from about 1965.

Her Christian name was given in her honour to a dragonfly by M.A.Lieftinck: Rhinocypha mariae, and to an oak by E.Soepadmo: Lithocarpus mariae. — M.J.

I was born at Haarlem on November 8, 1904, as the elder daughter of H.G.Kruseman, tobacco manufacturer, and of G.A.E. Reydon, widow of A.van Brederode, and already mother of three children over ten years older from her first marriage. I grew up comfortably in a sheltered home. My father was a liberal, though that certainly did not implicate that he always voted for the liberal party. As normal a certain generation conflict existed, the more so as my parents were rather old, and in my view held old-fashioned ideas.

I did not like school. At primary school already I rebelled against doing homework which took time I regarded as my own. On the other hand I had a strong feeling of duty, and of justice. Until 16 I was a mediocre pupil and at secondary school (H.B.S.-B) had little interest in sciences. After I moved to the 'Commercial School' (Handelsschool, later H.B.S.-A) I became top of my class and remained so to final examination in 1923. My favourite disciplines were literature (my list of books was far larger than needed, especially in Dutch, English and German, less so in French) and political economics. I was representative of my class and treasurer of the school club.

In my early youth I was my father's disciple. He had a keen floristic interest, and from many walks I knew already quite a few trees and native plants of the vicinity of Haarlem. I was not inclined to learn Latin names, what I made up for pretty quick in later years. In about 1922 I joined the N.J.N. (a Dutch Youth Association for the study of nature). School years had given me no stimulant at all for my interest in nature. The lessons of an, in my opinion, very dull teacher, Dr. Calkoen, were certainly to blame. The summer camps of the N.J.N. at Ommen (1922), Mook (1923), and Castricum (1924) were a revelation and valued much higher than hotel holidays with my parents. But then it was not only Nature, but also the long talks on many a subject, in one of the at that time still small tents, what I enjoyed. For some years I was a treasurer of the Haarlem branch of the N.J.N. of which the later professor of zoology L.D.Brongersma, was a president.

My interest in economics I shared with my father too, and after secondary school he would gladly have sent me to the Economic Highschool at Rotterdam (now incorporated in the Erasmus University), but I lacked the ambition, a lack of drive for emancipation, as such a poor follower of one of the 19th century Krusemans, the famous (or notorious?) Mina Kruseman (mostly written Krüsemann, but belonging to the same family). And also of my father's sisters who had taken state examinations at university level at a time when women were not yet admitted to the university.

Working in an office did not appeal to me at all, but to work in a library did. The education for library work had long been associated with the Social Academy at Amsterdam, but in 1923 it had been changed to a less attractive program on a lower level. Miss Knappert, the then Director of the Academy persuaded me to enroll at the Academy anyway. Many of the lectures were interesting enough, e.g. by A.F.J.Portielje of the Artis Zoo on animal behaviour, on philosophy by Dr. J.D.Bierens de Haan, others on politics, art, and law, but it soon became clear to me that doing social work would not suit me and I stopped.

I then started to work in a nursery-garden at Overveen, near Haarlem, the 'Teunisbloem' of Kees Sipkes. There I remained until my wedding in 1927. Kees Sipkes was a keen florist, who specialized in growing wild plants, for which school-gardens and university horti were good customers. His alpine plants were much in demand for the then popular rock and wall gardens. There I became a self-made typist (making invoices and the like), an advantage to myself and my later husband, whose thesis I typed out. In those years 'Thijsse's Hof' at Bloemendaal was planned, a wild flower garden, for which Sipkes made the lay-out and for which most of the

plants were supplied by the Teunisbloem; I assisted in the planting.

In 1924 I became engaged to C.G.G.J.van Steenis whom I had known for some years from incidental excursions and from 1923 in N.J.N. camps. Nature made a lasting bond between us. A future in Buitenzorg (later Bogor), Kees van Steenis's heart-felt desire, frightened me at first. Exaggerated stories about the impossibility to ride a bicycle, to pack one's own suitcases, etc. in the tropics, the occurrence of snakes, and my little adventurous character contributed to this. To my own surprise, when we arrived at Buitenzorg, reality turned out to be quite different, my adaptation was easy, and I still regard our years in the tropics as the best years of our life. Kees had difficulties at first (see *The life of a Botanist*, 1972), but the feeling that we were on some kind of expedition, changed to feeling at home.

Together we made many excursions and collecting trips in South and North Sumatra, Central Celebes, Bali, and climbed several mountains in Java from the Salak in the west to the easternmost Idjen Plateau. These trips will remain to our best memories. I never developed a keen interest in taxonomy of plants, although I got to know quite a few (by Latin names) and from my work in the nursery I had developed a good form knowledge not only of flowers, but also of seedlings and plants out of flowers. My interest has been mostly in the landscape, and the vegetation as a whole.

After three years of marriage our son was born, for many years our only child. His interests were emphatically non-botanical (for some years he collected butterflies with the eldest son of P.Groenhart, the lichenologist), and he never liked walking. He was always happy to stay in a family with other children and that did not present a problem when we made our trips.

The year 1936 brought a turning point, because of my husband's planned expedition to Gunung Leuser. Such an enterprise of a hundred people, including carriers, soldiers, a topographer, and a zoologist, which had to start from the passible road by four days marches to Blang Kedjeren before the expedition proper with heavy counter-slopes, seemed too much for me. The possibility that I, as the only woman, might be a drawback, and the difficulty to leave the son for over three months, made us decide that I would stay at home. Before he left, Kees handed me a little bundle containing data on Malesian plant collectors and collections, with the suggestion that it might suit me to do work of that kind. It was the starting point for which was in due time to become volume one of the *Flora Malesiana*, the *Cyclopaedia of Plant Collectors and Collections*.

It soon appeared that it implicated an extensive study of botanical literature, expedition reports, biographies, compilations of all kinds, and often small papers in obscure periodicals. Much material was available at the Bogor scientific library. The expensive volumes of early French and English expeditions could for the greater part be consulted at Djakarta in the libraries of the 'Natuurkundige Vereniging' (Royal Natural Science Society) and the 'Bataviaasch Genootschap voor Kunsten en Wetenschappen' (Batavian Society for Arts and Sciences). For that aim I went once a week to Djakarta. Correspondence I postponed and I started just before the war to send out forms to be filled with information by individuals. Naturally they fell into a void and after 1945 I had to start again with that part of the job.

May 1940 the Netherlands became involved in World War II, an emotional blow for the Dutch who had their relatives in the home country. In Java (and presumably in the other islands too) Germans and Dutch fascists (N.S.B. followers) were interned and their letters and papers confiscated. Mr. Van Rossen, the then Resident Magistrate of Bogor province, asked me to sort out the Dutch files. I dropped my work on the Cyclopaedia for the time being, and agreed. When looking back I wonder why they asked me, I did not know the Resident Magistrate at all, and I still have no idea. It was the first time I had to prepare a report on other people's motives and actions; for myself I had a feeling I did not do a bad job. Later Van Rossen was decorated, and when we went to the reception, I was perplexed when he told me that he partly owed this to the report I had prepared for him!

In the beginning of the Japanese occupation of Java, March 1942, Kees was taken as a P.O.W., being a lieutenant in the reserve at Tandjong Priok. Dr. D.F.van Slooten, then Head of the Herbarium, was told that he could attract Dutch botanists for the staff, as a shipload of Japanese scientists had been torpedoed on their way to Java, but most prewar Dutch staff-members were interned. In this way no men were available and he presented me to the Japanese authorities for an appointment to continue my work on the Cyclopaedia. Authorization came forth in a week and in this way I could continue till the end of the war. Later, when all the Dutch were brought together in camps, our son and I lived in a worker's camp, all of them staff members of the scientific institutes with their families, among them Dr. H.C.D.de Wit. Our private scientific library, manuscripts, card indexes, and notes were moved twice, the first time when in about May 1942 I started, for economy's sake, to live together with two other wives with children, the second time when the first transports of wives and children were sent to Bandung and there could be no

doubt about what was held in store for all of us. A request, obligatory by then, for the removal of our books etc. to the Herbarium, was waved away by the Kempetai (Japanese military police), but granted yet through the intermediary of a Japanese officer of the Forest Service who fully understood the importance.

After some time Van Slooten was interned also, and Professor Dr. R.Kanehira, a well-known botanist, became my superior. He was a Christian, a good and honest man, and did what he could to make our lives as bearable as possible under the circumstances.

He valued the work on the Cyclopaedia, but asked me to prepare also accounts of the history of botanical exploration for the major islands or island groups (see end of the Bibliography) and of Medicinal Plants (1954 c). The work on these historical accounts delighted me, because it was putting the numerous pieces of a puzzle in their place. Translation of the manuscript into English was started at that time.

When Kees, as a P.O.W., was eventually put to work in the Herbarium too, some contact between him and me was possible, although strictly forbidden. Thus we were privileged compared with others who were separated and uncertain about each others life or death. In the last month of the war Kees was sent back to the P.O.W. camp in Batavia, but I worked till the moment when in the chaotic days after the Japanese capitulation the Herbarium came to be situated in the part of Bogor not under control of the Allied troops. A few unruly months followed; in October 1945 Kees returned from Batavia to join us in the enormously expanded camp, then populated with the Indo-Europeans as well. In December, with the consent of the English Commander, we moved, together with Miss Dr. Jacoba Ruinen, Mr. A.Hoogerwerf, and several others into one of the curator's houses within the Botanic Garden. Kees was not yet demilitarized and occasionally visited the Herbarium, but virtually scientific work was impossible and there was no safety at all. In retrospect the war years have been important to my personal development. For one thing it taught me 'Carpe diem', to live by the day, not looking too far ahead. I never was impressed by externals, but after the war even less so.

In July 1946 we could leave for the Netherlands and thanks to the British and Indonesians of the Herbarium take many of our books and all manuscripts, all packed in crates, with us. Most of the remaining part was sent later by Van Slooten. Lucky again, when compared with others, and very fortunate for the work on Flora Malesiana. Most of our other possessions were lost, but those could be replaced in better times.

In November 1946 we went together on a mission to England,

particularly to Kew and the British Museum (Nat. Hist. Department), where I worked like mad. In the B.M., Mr. A.H.G. Alston had laid out a table full of old herbarium books and manuscripts by Sloane etc.; Mr. W.T. Stearn succeeded to unearth certain diaries which were still in packing cases since evacuation during the war. In December we went to the U.S.A., where I could work at Cambridge, Jamaica Plain (Arnold Arboretum), in Washington D.C. (Agricultural Department and the Library of Congress), and finally in New York Botanical Garden. I was able to consult literature, acquisition lists of herbarium specimens, and in New York J.H. Barnhart's files which recently have been published as 'Biographical Notes upon Botanists'.

In February 1947, we settled at The Hague. It was about time as on May 1st our daughter Liesbet was born. An event that has kept us young. In this town the 'Koninklijke Bibliotheek', the 'Rijksarchief', the 'Koninklijk Instituut voor Taal-, Land-, en Volkenkunde', were frequently visited by me; also the former Ministry of Colonies, the East Indian Pension Fund, and the Sugar Association where many of the more recent biographical data were unearthed. Besides, a considerable correspondence was necessary. Still more data were discovered during journeys to Paris (Library of the Jardin Botanique, Bibliothèque Nationale, Archives Nationales), Brussels (the Herbarium), Geneva (the biographical notes by Alph. de Candolle); for the 1st supplement: Florence (Beccari), Hamburg, Lund, Stockholm and Uppsala (see Acknowledgements in the Cyclopaedia, p. cxliii-cxliv). All these trips I made together with Kees, he going there for other reasons.

In 1950 the 'Cyclopaedia' was published (Flora Malesiana ser. I, vol. 1); the 1st Supplement was compiled during 1950-1958, the 2nd in the following years.

The greater part of 1950 we lived once more at Bogor, this time with the daughter. After return we settled at Oegstgeest near Leyden, and there I depended for my work largely on the University and Herbarium libraries.

Since Kees was of the opinion that there was a great need for 'Publication Dates' and for a 'Bibliography of Pacific Plant Areas', much of my time was taken up by work on those subjects. Work on 'International Bibliography of Vegetation Maps' was done at the request of Professor A.W. Kückler, who had asked my cooperation at the Edinburgh Botanical Congress.

In 1961 Dr. Egbert H. Walker of Washington asked me for details on H. Bürger, in connection with his work on the flora of Japan. Though reluctantly started, Bürger's life proved interesting enough, and who sketched my surprise when Bürger eventually turned up in Java. I even had him as an unknown 'Burger' in my Cyclopaedia! In some respects it was more

satisfactory than my former work, as the result was a complete biography*. Kees would have welcomed more anecdotal and personal details in the Cyclopaedia, but I felt that it should contain concise information of direct relevance only. Another idea of his I had accepted, viz the including of portraits, for the acquiring of which he took much trouble.

In 1968 I started on 'Botany and Gardening' in 'Martinus van Marum / Life and Work', again persuaded by Kees who had been asked to suggest an author. Like in the case of Bürger this was to be a more elaborate study for which the complete Van Marum archives in the 'Hollandsche Maatschappij van Wetenschappen' at Haarlem were at my disposal. They were excellently arranged by the former librarian Mr. R.Lorentz; I went there one day every week. It is fascinating for me to bring in focus what was little more than a blurred vision.

It was remarkable to read in some appreciative letters on the Bürger and Van Marum papers, from totally different people, that they reveal an image of the subject as well as of the author. I myself doubt whether I have to regard that as a compliment.

With equal pleasure I have written my husband's biography, at the suggestion of Mr. P.Baas, although once more I rejected the idea at first.

I had the time of my life during our many trips in Indonesia, holidays in the Alps and the Mediterranean islands, the splendid excursions before and after congresses (especially Morocco and British Columbia), and the fantastic recent journey to Australia and New Zealand.

Among those with whom I had contact and exchanged data, all after World War II, I must name Dr. C.A.Backer, Dr. F. Verdoorn, and Dr. E.D.Merrill (Arnold Arboretum); when the latter suggested a bibliographic cooperation, his health was already such, that I felt I had to reckon with the possibility to have to finish it all on my own what I thought would be more than I could manage. Besides with Dr. W.T.Stearn (British Museum), Dr. John Bastin of the School of Oriental and Africa Studies (University of London), who stayed twice in the vicinity of Leyden for his studies on English Civil servants in Sumatra and Java before and during the English Interregnum early in the 19th century, Dr. L.B.Holthuis, zoologist at Leyden (especially in connection with Bürger), Professor Dr. Hans Tralau of Stockholm for the Index Holmen-sis, and several others.

*) I was much pleased when Professor Uéno, through the intermediation of Dr. Holthuis, sent me a copy of a sketch of Bürger in his Japanese office, which had recently been detected in a private collection of Japanese drawings.

At intervals I was engaged in proofreading and indexing the Flora Malesiana and Flora Malesiana Bulletin volumes, and handled the finances of the Flora Malesiana Foundation.

What was it that drove me towards this sort of work?

First. The opportunity to live in a place like Java, with plenty of domestic help and having only one child at the time. Besides, a streak of the well-known Dutch calvinism (although, in this case in an unbeliever), which prevents me from idling, let alone waste my time on ladies 'Kaffee-klatsch' and morning Bridge. So much for the initiative circumstances.

Second. To assist my husband. His work has my full interest and I am deeply convinced of its value.

Third. My orderly mind which hates confusion and disorderliness.

Fourth. A gift to segregate important from unimportant things.

Fifth. My tenacity, forcing me to finish what I have begun.

Sixth. The last but very important point, a desire for synthesis, and an interest in human motives.

I never had the ambition to have a regular job, except during the Japanese occupation when I earned something like 150 guilders a month and was glad to have some income and even enough to be able to help others. In normal times I liked to grant my family and myself the fulfillments of their needs and mine. Those of myself still include a free evening, like in my youth. Besides, working under pressure of time does not suit me. I am still an eager reader, more selective than before, but strange though it may seem, hardly of biographies, books of travel or nature, but of novels and short stories. Economics still has my interest, but due to the circumstances it has become a rather underdeveloped part of my abilities, strictly for home use. Though Kees inspired and stimulated me, my work is essentially my own; I am a typical solitary worker. Does it justify a biography? I don't feel sure.

List of publications of M.J.van Steenis-Kruseman

1950. Contributions to the History of Botany and Exploration in Malaysia. 1. *Kollmann's collection of Javan Plants*. Bull.Bot.Gard.Buitenzorg III, 18: 463-466. 4. *Collection 'stathouder, Java' at Paris from Ceylon*. l.c. 468-470, with C.G.G.J.van Steenis. 5. *Biographical Note on Alexander Zipelius*. l.c. 470-471, with C.G.G.J.van Steenis. 6. *Did Zollinger ever visit Krakatoa Islands?* l.c. 471-472, with C.G.G.J.van Steenis.

1950. *Malaysian Plant Collectors and Collections being a Cyclopaedia of Botanical Exploration in Malaysia and a Guide to the concerned Literature up to the year 1950.* Fl.Males. i 1: cxvii-clii + 639 pp., phot. (General part partly by C.G.G.J.van Steenis).
1951. *Index.* Fl.Males.Bull. volume 1: ii-xxiii.
1953. *Brief sketch of the Tjibodas Mountain Garden.* Fl.Males. Bull. no.10: 312-351 (with C.G.G.J.van Steenis).
1954. *Louis Auguste Deschamps.* Bull.Brit.Mus.(Nat.Hist.), Hist.Ser. 1: 51-68 (with C.G.G.J.van Steenis and C.A. Backer).
1954. *Dates of Publication.* Fl.Males. i 4: clxiii-ccxix (with W.T.Stearn). Continued in Fl.Males.Bull. no.12 (1956) 488-491; 13 (1957) 568-570; 14 (1959) 641-645; 15 (1960) 730-743; 16 (1961) 821-825; 17 (1962) 905-911; 18 (1963) 1011-1016; 19 (1964) 1141-1149 (partly with H.Sleumer); 20 (1965) 1274-1278; 24 (1969) 1801; 25 (1971) 1906; 26 (1972) 2017-2019; 27 (1974) 2190-2191; 28 (1975) 2364-2365.
1954. *Select Indonesian Medicinal Plants.* Organ.f.Scient.Re-search in Indonesia, Bull. no.18, Aug.1953: 90 pp.
1954. *Index to scientific plant names.* Fl.Males. i 4: 601-631.
1956. *Index.* Fl.Males.Bull. volume 2: ii-xlii.
1958. *Malaysian Plant Collectors and Collections. Supplement I.* Fl.Males. i 5: ccxxxv-cccxlvi, also paged (1)-(108), phot.
1958. *Index to scientific plant names.* Fl.Males. i 5: 571-595.
1961. *Index.* Fl.Males.Bull. volume 3: ii-li.
1962. Contributions to the History of Botany and Exploration in Malaysia. 8. *Heinrich Bürger (?1806-1858), explorer in Japan and Sumatra.* Blumea 11: 495-505. 9. *The transfer of the Rijksherbarium from Brussels to Holland in 1830.* l.c. 505-508.
1963. *Bibliography of Pacific and Malaysian Plant Maps of Phanerogams.* In Pacific Plant Areas (ed. C.G.G.J.van Steenis) vol.1: 9-246.
1965. *Index.* Fl.Males.Bull. volume 4: ii-lxix.
1966. *Bibliography of Pacific and Malesian Plant Maps of Phanerogams. Supplement I.* In Pacific Plant Areas (ed. C.G.G.J.van Steenis & M.M.J.van Balgooy) vol.2: 7-52.
1968. *Bibliography of vegetation maps for Indonesia, Malaysia, Singapore, and the Philippines in A.W.Küchler (ed.) International Bibliography of Vegetation Maps, vol.3, Univ.of Kansas Libr.: 172-196, 238-240, 250.*
1969. *Index.* Fl.Males.Bull. volume 5: ii-lxxviii.
1970. *The Plates of Javanese plants of Francisco Noroña / with a revised evaluation of his new generic names.* Regn.Veget. 71: 353-380 (with C.G.G.J.van Steenis).

1971. *Botany and Gardening* in Martinus van Marum / *Life and Work* (ed. R.J.Forbes) vol.3: 127-174.
1972. *The life of a botanist* (Van Steenis: the Man). *Blumea* 20: 1-6.
1972. *Index to scientific plant names*. *Fl.Males.* i 6: 985-1023.
1974. *Malesian Plant Collectors and Collections. Supplement II*. *Fl.Males.* i 8: i-cxv.
1975. *Bibliography of Pacific and Malesian Plant Maps of Phanerogams. Supplement II*. In *Pacific Plant Areas* (ed. M.M.J.van Balgooy) vol.3 (in the press).

1953. Numerical list of Beccari's collections in Sumatra, Borneo, and New Guinea. 500 pp.
1954. Ditto of Haviland's collections in Borneo. 141 pp. (bound foolscap sheets in Rijksherbarium, Leyden).

MSS made during 1943-1944 in Herbarium Bogoriense

1. History of botanical research of Sumatra. Exploration and Publication. 77 pp. typescript.
2. A history of botanical exploration of New Guinea, and adjacent islands. 112 pp. typescript.
3. A history of botanical exploration in Celebes. 57 pp. typescript.
4. History of the botanical exploration of Borneo. 62 pp. typescript.
5. History of the botanical exploration of the Malay Peninsula. 66 pp. typescript.
6. History of the botanical exploration of Java. 79 pp. typescript (unfinished).

DR. L. VAN DER PIJL, TROPICAL ECOLOGIST

Dr. Leendert van der Pijl retired as professor of tropical botany at the University of Nijmegen on account of the age limit. This offers a good occasion to dwell upon the career of an enthusiastic and original, if rather unconventional botanist. He was born on 21 December 1903 at Utrecht, Netherlands; from 1922-1927 studied biology at the University of Amsterdam, and went to the Netherlands Indies right away. He became a teacher at a secondary school at Bandung, west-Java. He recollects that on his first European leave he brought with him material for three theses, from which Professor Th.J. Stomps selected the one he was but moderately happy with, on poly-embryony in *Eugenia* (Rec.Trav.Bot.Neerl. 31, 1933, 113-187).

When the war came, he was led into Japanese captivity, as one of the scattered biologists who could make use of the knowledge they had picked up in their work and while roaming the countryside to see what the population ate and used, for the benefit of their fellow-prisoners.

After the war, he became Rector of the school where he had been a teacher, in 1947. The next year, in 1948, he became a Professor of Botany at Bandung University, till 1954, when he retired and settled in Holland, Sportlaan 236, The Hague, where he still lives. He went on to work and publish; and was adviser of the great flower exhibition Floriade; in 1959 he became an Honorary Collaborator of the Rijksherbarium, Leiden and in this capacity demonstrated plant life (even at night) in greenhouses and botanical garden to students for two years, but later he felt less at home at the institute, and resigned by 1 January 1963. In 1965 he became Professor Extraordinary at Nijmegen.

Rather than by these assignments, his career is characterized by independence. Without much specific preparation or official backing, he found himself as a biologist among the living world of Indonesia, and found occasion to travel (at his own expense, as he casually mentioned) to Celebes, Ambon, the Lesser Sunda Islands, and of course all over Java. "Some people", he wrote me, "considered me as an exploiter of taxonomists, others as an inspirer of them." He never cared to be a taxonomist himself, since he felt drawn to the living plants and animals in their endlessly fascinating relations. Gradually he became a self-made ecologist, and still his work shows this in the enthusiasm and spontaneity of observation, indifference to solid reputations, and also in a struggle with the methods and theoretical concepts to deal with a very complex unworked field.

On the relation between plants and bats he made a great

pioneer contribution, "being a witness of the tropical night-life"; see his papers in Flora 131 (1936) 1-40 and in Acta Bot.Neerl. 5 (1956) 135-144 on pollination, and 1957 on dispersal*. From his great and varied experience in the tropics, he contributed to the re-making of morphology (see his paper on flagelliflory and cauliflory, Ann.Gard.Buit. 51, 1941, 83-93; also 1952, 1956, 1957, 1972) placing it in true, i.e. tropical, perspective. In dialogue with E.J.H.Corner, and like him, stressing transference of function, he did much to demonstrate the relations between plants and animals as a factor in evolution (Evolution 14, 1960, 403-416; *ibid.* 15, 1961, 44-59; also 1966).

Pijl (as his wife calls him), in a blend of modesty and generosity, and never at a loss for a good story, has an easy way of getting along with people of all classes and races. He sat on the council of several natural history societies and on editorial boards, and has done much to popularize biology, and was engaged in adult education and other social work in between. Some more about his outlook on life we can learn from his paper on Biology and Ethics (in Dutch) in the journal *Universiteit en Hogeschool* 17 (1971) 464-480. Among the honours awarded him we mention Corresponding Membership of the Royal Netherlands Academy of Science, and Knight in the Order of the Dutch Lion. On 14 December 1973, a symposium was held in his honour at Nijmegen; the contributions have been published in offset: N.B.M.Brantjes & H.F.Linskens (ed.), *Pollination and Dispersal / Symposium, 14 December 1973, offered to Prof. Dr. L. van der Pijl at his 70th birthday.* Dept. of Biology, University of Nijmegen (1973) 125 pp., incl. photographs.

It is typical for his perseverance that the first day of every month he sits in the reading room of the Rijksherbarium to examine the new literature. Meanwhile, the work he has built, on his own account and overcoming many a setback, contains a treasure of ideas to remind taxonomists that they are biologists, and to remind biologists of the tropics. If a man possesses a curious eye and a good dose of holy itch, let him go there and continue in Leendert van der Pijl's footsteps.

*) Bibliographic Note. Before World War II Van der Pijl wrote a good many popular papers in Dutch in 'De Tropische Natuur'. Part of his subsequent papers have been listed in this Bulletin on pages 54, 152, 171, 176, 389, 397, 455, 533, 595, 689, 952, 1495, 1860. The more important ones not listed have now been included in the Bibliography of the present issue. Most of the matter he published in Dutch can also be found in English version. Since his books have been widely reviewed, I

only give their titles: L.VAN DER PIJL & C.H.DODSON, *Orchid flowers / Their pollination and evolution*, 214 pp. (Univ. Miami Press 1966); K.FAEGRI & L.VAN DER PIJL, *The principles of pollination ecology*, 2nd ed., xii + 291 pp. (Pergamon Press 1971; 1st ed. 1966); L.VAN DER PIJL, *Principles of dispersal in higher plants*, 2nd ed., 161 pp., 16 fig. (Springer 1972; 1st ed. 1968). — M.Jacobs.

MR. SAPEI AND THE DISCOVERY OF NOTHOFAGUS IN NEW GUINEA

The description of a new variety of the last New Guinean species of *Nothofagus**, which was as yet only known from a single type specimen, brought forth some reminiscences about the discovery of the genus in New Guinea which are possibly worthwhile to put on record, partly for historical and partly for personal reasons.

The epithet of the variety namely commemorates the name of the late Mr. S a p e i, of the Indonesian personnel of Herbarium Bogoriense, who finally served in the highest possible rank of 'hoofdmantri'.

As he never took part, as far as I know, in exploration and collecting work, his name is omitted from the 'Cyclopaedia of Collectors' (Fl.Males. vol.1). On the other hand he had an immense, essential merit in the pre-identification of such collections. For this reason the name of this retiring, respectable, dignified collaborator should not fall into oblivion in Malesian botanical literature.

When I came to Bogor, in December 1927, Sapei was already a fairly aged person. He was highly estimated among the Indonesian personnel as 'the learned one'. He had been, I believe, originally among the personnel of the Gardens, and had probably been selected among them for serving the herbarium by his accuracy and plant knowledge. He had not gained plant knowledge from joining botanical expeditions. In spite of this he acquired gradually an unrivalled form-knowledge and his only task was to assist with pre-identifying specimens, especially those which were sterile or otherwise inadequate. This he did by comparing unnamed material with named sheets in the Herbarium, a work which he had pursued for dozens of years, enlightening especially the task of those dealing with incoming collections among which there were so many sterile or inadequate sheets, amongst others Dr. J.G.B.Beumée, Mr. R.C.Bakhuizen van den Brink Sr. and later myself and Dr. D.F. van Slooten.

If he could not find exactly the same species he tried to locate one or more other 'near' to it. Sometimes it took him only little time, sometimes a day to dig it out; sometimes he kept the specimens a long time, but I cannot remember any time he could not find something which put one on the right track. He found the identity of *Apoia* Merr., described as a monotypic genus of the Myrsinaceae from the Philippines, but really a *Sarcosperma*; I gave him the type sheet and submitted his result to Dr. H.J.Lam (cf. Philip.J.Sc. 49, 1932, 143).

Much to my chagrin I have once paid insufficient attention to his opinion and uncanny capacity. This was in 1935 when I gave him a duplicate of a dubious plant collected by my pro-

fessor A.A.Pulle in 1913 which had withstood identification. When I was his assistant, Pulle told me that he had still an important New Guinean plant which had been examined many times by him and his assistants and at some time had been tentatively referred to Euphorbiaceae, then to Hamamelidaceae. When I had during my first term of office at Bogor (1927-1934) learned the most remarkable abilities of Sapei, I took after my leave to Holland with me a duplicate of the unknown plant. After several months Sapei one day entered my room, in his silent cautious way, and said that he believed he had found a 'near' in the herbarium, but that we did not possess the same species. What he showed me was a New Zealand specimen of *Nothofagus*. But it differed in some important aspects from the Papuan specimen (in having caducous, non-peltate stipules and toothed leaves), so that I could not believe Sapei was right that time. But he was and his opinion lingered in my memory.

When Mr. L.J.Brass returned from the Mount Wilhelmina expedition in 1939 he passed Bogor for one day. He handed me some tubes filled with peat in which were just germinated seeds of the beautiful d'Albertis creeper, those scarlet-flowered *Mucuna*. Then he took something from his vest-pocket in his fist and said: "now, van Steenis, I have here something to show you, but you must not ponder about it, but I wish to have your immediate sight opinion about it, whatever may come into your mind". He opened his fist and I said: "the cupule of a beech", soon after adding: "but that is impossible". Whereupon Brass said: "you are still correct, but it is the southern beech *Nothofagus*". At that moment the memory of Pulle's plant dawned on me, as well as Sapei's suggestion which I had doubted before and I tied these up with Brass's plant. To test this, I said to Brass: "If that is true I can tell you a remarkable vegetative character of your Papuan *Nothofagus*: it has peltate stipules", whereupon Brass had occasion to be astonished in turn and said: "how can you know?" Then I told him the story and showed him Pulle's specimen which he admitted was also a *Nothofagus*, though a different species than he had collected.

From a letter of Brass to Mr. C.E.Lane-Poole, dated 25 May 1942, I have learned that Brass suspected to have collected *Nothofagus* as early as 1935, but he never made this public. As Professor Pulle had collected *Nothofagus* in New Guinea apparently for the first time, I suggested to Mr. Brass to entrust the elaboration of Papuan *Nothofagus* to him, but nothing came of that, and later Pulle referred the task of the revision to me.

I found fit to publish this note as a contribution to the history of discovery of *Nothofagus* in New Guinea and to cor-

rect some errors in Brass's letter where his memory obviously failed him, but especially to honour the talented Sapei to whom Herbarium Bogoriense and Malesian botany and botanists in general are so much indebted. — C.G.G.J.van Steenis.

*) *N. crenata* var. *sapeii* Steen., *Blumea* 22 (1975) 170.

IN HONOUR OF MR. F.H.HILDEBRAND

Frederik Hendrik Hildebrand was born in the isle of Ternate, Moluccas, July 1st, 1900. He attended courses in forestry at the 'Cultuurschool', division of Forestry, at Sukabumi, West Java, which he successfully finished in 1917. In that year he was appointed as 'leerling-opziener' ('apprentice overseer') in the Netherlands Indian Forestry Service and was placed in the forestry division at Tojong (Surakarta). In 1918 he was promoted to 'opziener'; during the period 1919-1922 he worked in the forestry district Krawang (Indramaju).

At his own request he was transferred in 1922 to the Forest Research Institute at Bogor, to serve as an assistant to Dr. F.H.Endert, head of the division Forest Botany. In this position he worked to his satisfaction together with Dr. Endert until 1940 when the latter went on leave to Holland and could not return because of World War II. In 1926 he was promoted to the rank of 'hoofdopziener'. After 1940 he took over the task of Dr. Endert on his own initiative and responsibility, continuing throughout the war period; at the end of 1945 this was temporarily discontinued when he was interned in a camp during the chaotic 'bersiap'-period. In 1946 he was promoted to the rank of 'Bosarchitect II', in 1949 he became 'Hoofdbosarchitect'; he retired in 1954 and then settled at Voorburg, near The Hague, in Holland.

During the period 1917-1940 he learned, from Dr. Endert, how to distinguish Malesian tree genera by means of vegetative characters, a most important facet of tropical botany and forestry, as not infrequently inadequate material is collected during forest strip surveys: material in bud or only in fruit, and that often immature. The identification of such inadequate or sterile material requires a very wide detail knowledge of vegetative characters: glands and dots, stipules, position of scars, phyllotaxis, indumentum and venation types, leaf margin, handlens-macroscopical features of the wood of twigs, pith, of resinous and other ducts, etc. etc., and knowledge not only of where such characters occur, but also, equally important, where they do not occur.

In Dr. Endert he had a most excellent teacher who had laid down his unrivalled thorough knowledge in a magnificent thesis in which he elaborated the definition, value and variation of vegetative characters and produced a key to the tree genera of Indonesia as far as represented in the collections of the Forest Research Station, Bogor, under the title: 'Geslachtstabellen voor Ned.-Indische boomsoorten naar vegetatieve kenmerken' (1928, published also in Meded.Proefst. Boschwezen no.20), a classic in its kind.

There were of course limits to Hildebrand's overall knowl-

edge of tropical plants as his specialization was in trees, and according to current definition of the forest institute at Bogor, this should be woody, erect plants which could obtain a minimum height of 10 m and their bole a diameter of 40 cm. Shrubs, lianas, and herbs fell outside his attention.

Pre-identification of botanically inadequate tree material by means of such characters is an art, a refined botanical detective work, in which the botanical Sherlock Holmes must rely on all kinds of traces stored in an immense memory of his form knowledge. I often experienced that botanists who are not familiar with the 'dots and glands', find it a sort of botanical magic when an exact 'placing' of family or genus name emerges from this kind of examination of scrappy, vegetative or otherwise inadequate material. There are of course sometimes difficult specimens which lack tangible trace characters, and then suggestions to more than one family or genus come out, but the number of definitely unnamed specimens was only a neglectable fraction. If Dr. Bakhuizen van den Brink Jr. or myself were at the end of our tether over such specimens - and we could not really even come to a tentative conclusion - Mr. Hildebrand could mostly give the reliable answer. His critical and unbiassed opinion has, in a few cases, even prevented specialists from describing new taxa or making errors. At the same time he led us in many cases on the scent of important reductions to be made or on mis-identified specimens which I have recognized in my miscellaneous contributions to Malesian botany. It was a great pleasure to work with him and benefit from his knowledge which he was always prepared to share. It is most unfortunate that such an accumulation of knowledge or, possibly better: memorized experience, is of course of a personal nature. It is difficult to transfer experience and form knowledge to others, as it is gained by endless personal observation and comparison in the Herbarium, in his case observation and comparison during a lifetime of an estimated number of several hundreds of thousands of sheets. This concerns in the first place the profuse collections of the Forest Experiment Station at Bogor, of which Herbarium Bogoriense and the Rijksherbarium, where duplicates of the forest survey explorations were deposited, had the benefit. But to no mean degree it concerned also the postwar collections of the Forest Station at Manokwari in Dutch New Guinea and after 1957 the numerous, sometimes very large sets of duplicates forwarded to the Rijksherbarium by the Forest Services at Kepong, Kuching, Sandakan, Manila, Lae, etc. of which the tree specimens were all subjected to his critical eye during the period 1963-1972 when he worked at the Rijksherbarium.

To return to his career: as said, he served in the Forest

Experiment Station at Bogor from 1922 until 1954, first under the Netherlands Indian, and after 1950 under the Indonesian Government. In the later part of this period he published a large number of critical Lists of Tree species from the various residencies, provinces, or islands of Indonesia: they were stencilled and issued as official publications of the Institute. They were not merely name lists but also contained in tabulated form the wood properties (durability and hardness classes) and vernacular names, so to say the reaping of the harvest of forestry collections made during the surveys. These inventories were, through their cross-referenced indices, eminent practical tools for local forest officers and gave them tangible information of the composition of the forest areas under their supervision.

Hildebrand also focussed attention on certain groups, and published introductory accounts on dipterocarps, bamboos, and rattans.

After the war the task of education of Forest Officers was transferred to Bogor in the 'Kursus Kehutanan Landjutan Tinggi', later called 'Akademi Kehutanan'. Here Hildebrand lectured on the subject of 'boomkennis' (knowledge of trees and how to recognize them); furthermore he lectured in the 'Kursus Pengudji Kaju' (on the subject of examination and inspection of woods) and in the 'Sekolah Kehutanan Menengah Atas', formerly the 'Middelbare Bosbouwschool' (for education of technical personnel).

For these courses he composed stencilled instruction sheets and, as the stock of Endert's famous work was exhausted, he also edited a new (stencilled) edition of this book, supplemented with new data accumulated since 1928. This emended key was translated at Canberra, CSIRO, by Dr. R.D. Hoogland in English ('Key to the tree genera in Indonesia') in 1956 and thus made available to a larger interested public.

Before the war Mr. Hildebrand also stood at the cradle of a new journal on forestry, edited by the society of technical personnel of the Forest Service, 'Het Bosch', after the war continued as 'Rimba Indonesia', of which he served as general editor.

Mr. Hildebrand did not endeavour himself to work as a plant taxonomist, realizing the limitations set by his education and also by the limited planning of the task of 'Forest Botanist' as earlier defined by his tutor Dr. Endert. He merely followed the latter's trend in satisfying himself to identify species as far as possible and numbering the unknown - often presumably new - ones with letters a, b, c, etc., relying for taxonomical examination on revisions by professional taxonomists.

There was an official agreement on the tasks between the Forest Experiment Station and Herbarium Bogoriense, whereby the latter would provide the precise botanical-systematical information to the former. This did of course not exclude the possibility that Endert and Hildebrand disagreed with the names given. They sometimes hesitated and though keeping silent or reticent about such matters in their practical work, data provided by the botanists at Bogor and abroad were carefully weighed: they could well estimate which botanists could be relied on and which should be followed with great caution.

In passing I want to mention that Mr. Hildebrand did not only work in the dried herbarium collections. He supplemented data on living material and, though his field collections are not profuse, he observed many trees grown in the Botanic Garden at Bogor, and he collected in Borneo in 1925, familiarizing himself with the methodology of inventory and strip surveys of the Exploration Division of the Forest Institute. He also collected regularly in Java, especially in forest and nature reserves.

Some reports were for example on the rain-forest flora of the south slopes of the huge Mt. Raung (East Java) and on some forest reserves in West Java (Djasinga, Dungus Iwul).

Amongst others he found a new Dipterocarp for Java in the Priangan mountains, very unexpectedly: Vatica javanica Sloot. He found also the second specimen, and the first flowering one, of an extremely rare Loranthacea, endemic in Java: Ginalloa falcata Dans. An account of his collections which run to some 750 numbers is to be found in the first volumen of Flora Malesiana.

In the last phase of his stay in Indonesia he intended to compile an Atlas of Timber Trees, with descriptions, of some 200 of the most important timber trees of Indonesia. For this purpose large-size drawings were made at the Forest Research Institute. Through his retirement in 1954 publication of this book was unfortunately frustrated.

After retirement in 1954, and settling in Holland, Mr. Hildebrand entered into the service of the Dutch Ministry of Overseas Affairs ('Directie Nieuw Guinea'), in the rank of 'adjunct-commies', being charged with the identification of the botanical specimens of the New Guinea forest exploration. These specimens were stored at the Rijksherbarium at Leyden, where he spent several days a week for this task. The Ministry stencilled the many reports on exploration strip surveys of forest complexes, set up in the same way as the earlier 'boomnamenlijsten' (Lists of Tree Species) mentioned before. He compiled also a preliminary key to 35 rattan species from New Guinea. He held this post until 1962 when it became superfluous after the sovereignty of West New Guinea was given over to Indonesia.

In 1963 I was able to induce the administration of Leyden University to allow him, on a temporary basis, to render a similar service to the Rijksherbarium collections.

Though not in a permanent position, he was perfectly happy with this. The University agreed with this until in 1970 he reached the age of 70. After that the financing was taken over by the Foundation Flora Malesiana; this lasted until February 1972 when feeble health did not permit him any longer to travel regularly from The Hague to the Rijksherbarium; also the consultation of material in the herbarium became too strenuous for his physical capacity.

During these nine years he checked all woody material coming in from Malesia, the Solomon Islands, etc. I also asked him to bring sheets of certain revised groups up to date with literature. Finally he focussed special attention to various large families, amongst them Annonaceae, Meliaceae, Myristicaceae, Leguminosae, Lauraceae, etc. etc. to bring the woody species to generic and provisional specific names as far as possible. These efforts were of essential value both to our Herbarium as well as to herbaria abroad where duplicates were stored. In the course of this work he found several old sheets and old names which were not accounted for and which he gladly brought to our knowledge in his very modest, but clear manner.

His feeble health worried him immensely in 1971-72, as his work was the joy of his life. Having to abandon this caused him a serious mental depression from which he has now fortunately recovered, finally submitting that this is inevitably bound to old age. He has now settled near Wageningen where we hope he will enjoy a well-earned 'otium cum dignitate'. He may look back on a singularly industrious life for the benefit of Malesian botany.

We miss him and his sound advice dearly and all of us remember his devoted attention to accurate identifications and his most kindly given cooperative disinterested help. Future generations will have the benefit of his bringing order in the Herbarium of woody Malesian plants.

Officially, his great merits were recognized by the Netherlands Government in awarding him, on September 2, 1950, the gold medal of honour of the Order of Oranje Nassau.

In scientific botany his name is commemorated in the epithets of two timber trees, Macadamia hildebrandii Sleumer and Sympetalandra hildebrandii Steen., which names, we hope, will stand the test of time and fittingly memorize his contributions to Malesian botany. — C.G.G.J. van Steenis.

Bibliography of F.H.Hildebrand

- 1938: Een tournee naar het Boschcomplex Djasinga II en het natuurmonument Doengoes Iwoel, West Java, van 25 t/m 27 April 1938.
- 1949: List of tree species, collected in the Division of Samarinda (East Borneo) — For.Res.Inst.Indonesia Rep. no. 2 (list of tree names no. 11).
- List of tree species, collected in the Division of Kapuas-Barito (South Borneo) — For.Res.Inst.Indonesia Rep. no. 3 (list of tree names no. 12).
- List of tree species, collected in the Division of Bandjarmasin and Hulu Sungei (South-East Borneo) — For.Res.Inst.Indonesia Rep. no. 5 (list of tree names no. 13).
- List of tree species, collected in Jambi (Central East Sumatra) — For.Res.Inst.Indonesia Rep. no. 8 (list of tree names no. 14).
- List of tree species, collected in the Eastcoast of Sumatra — For.Res.Inst.Indonesia Rep. no. 9 (list of tree names no. 15).
- List of tree species, collected in Riau, Bengkalis and Indragiri (Central East Sumatra) — For.Res.Inst.Indonesia Rep. no. 11 (list of tree names no. 16).
- List of tree species, collected in Bangka and Billiton — For.Res.Inst.Indonesia Rep. no. 12 (list of tree names no. 17).
- List of tree species, collected in Palembang (South Sumatra) — For.Res.Inst.Indonesia Rep. no. 19 (list of tree names no. 18).
- List of tree species, collected in the Lampung Districts (South Sumatra) — For.Res.Inst.Indonesia Rep. no. 20 (list of tree names no. 19).
- List of tree species, collected in Bencoolen — For.Res.Inst.Indonesia Rep. no. 22 (list of tree names no. 20).
- Boomnamenlijst van de Z. en ZW. hellingen van de G. Raoeng (East Java).
- 1950: List of tree species, collected in the Westcoast of Sumatra — For.Res.Inst.Indonesia Rep. no. 26 (list of tree names no. 21).
- List of tree species, collected in Tapanuli (North-West Sumatra) — For.Res.Inst.Indonesia Rep. no. 29 (list of tree names no. 22).
- List of tree species, collected in Atjeh-Simalur (North Sumatra) — For.Res.Inst.Indonesia Rep. no. 32 (list of tree names no. 23).
- List of tree species of Java and Madura with notes on their distribution etc. — For.Res.Inst.Indonesia Rep. no. 35 (list of tree names no. 24).

Trees and shrubs in the Forest Research Institute's Garden at Bogor — For.Res.Inst.Indonesia Rep. no. 41 (list of tree names no. 25) (by F.H.Hildebrand & F.A.Verduyn Lunel).

1951: Revised list of tree species, collected in Celebes — For.Res.Inst.Indonesia Rep. no. 43 (list of tree names no. 26).

Revised list of tree species, collected in Menado (North-East Celebes) — For.Res.Inst.Indonesia Rep. no. 44 (list of tree names no. 27).

List of tree species, collected in the North Moluccas — For. Res.Inst.Indonesia Rep. no. 45 (list of tree names no.28).

List of tree species, collected in the South Moluccas — For. Res.Inst.Indonesia Rep. no. 49 (list of tree names no.29).

Revised list of tree species of Java and Madura with notes on their distribution etc. — For.Res.Inst.Indonesia Rep. no. 50 (list of tree names no. 30).

1952: Revised list of tree species, collected in West Borneo — For.Res.Inst.Indonesia Rep. no. 54 (list of tree names no. 31).

Preferential names for important tree species in Indonesia — Special publication of the For.Res.Inst.Indonesia Rep. no. 6.

Revised list of tree species, collected in the Division "Bulungan and Berau" (East Borneo) — For.Res.Inst.Indonesia Rep. no. 55 (list of tree names no. 32).

Revised list of tree species, collected in the Eastcoast of Sumatra — For.Res.Inst.Indonesia Rep. no. 56 (list of tree names no. 33).

Revised list of tree species, collected in Bangka and Billiton — For.Res.Inst.Indonesia Rep. no. 57 (list of tree names no. 34).

Revised list of tree species, collected in the Division Samarinda (East Borneo) — For.Res.Inst.Indonesia Rep. no. 58 (list of tree names no. 35).

1953: Sleutel op de boomgeslachten in Indonesië, by F.H.En-dert. Revised edition.

List of tree species, collected in the Division "Bengkalis" (Rhio - Sumatra) — For.Res.Inst.Indonesia Rep. no. 59 (list of tree names no. 36).

List of tree species, collected in "Timor" (Lesser Sunda Islands) — For.Res.Inst.Indonesia Rep. no. 60 (list of tree names no. 37).

List of tree species, collected in Rhio and Indragiri (Central Sumatra) — For.Res.Inst.Indonesia Rep. no. 61 (list of tree names no. 38).

List of tree species, collected in "Bandjarmasin and Hulu Sungei" (South East Borneo) — For.Res.Inst.Indonesia Rep. no. 63 (list of tree names no. 40)..

List of tree species, collected in the Westcoast of Sumatra — For.Res.Inst.Indonesia Rep. no. 64 (list of tree names no. 41).

1954: List of tree species, collected in the Lampungs (South Sumatra) — For.Res.Inst.Indonesia Rep. no. 65 (list of tree names no. 42).

Notes on Javanese Bamboo species — For.Res.Inst.Indonesia Rep. no. 66.

List of tree species, collected in Tapanuli (North Sumatra) — For.Res.Inst.Indonesia Rep. no. 67 (list of tree names no. 43).

List of tree species, collected in the Division "Jambi" (South Sumatra) — For.Res.Inst.Indonesia Rep. no. 8a (list of tree names no. 14a).

1958: Voorlopige sleutel van 35 rotansoorten uit Nieuw Guinea.



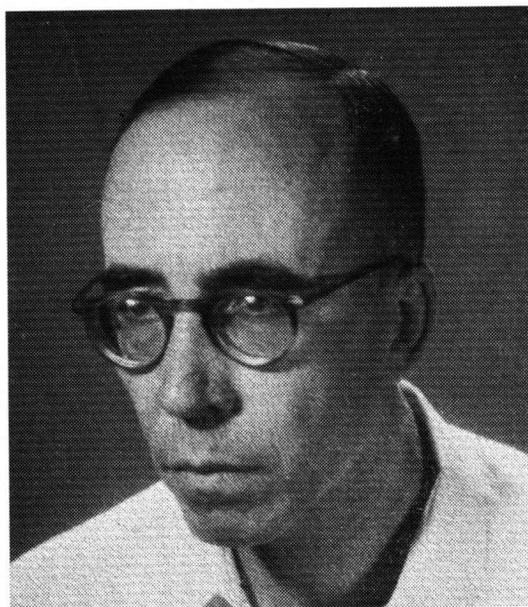
R. E. Holttum, 1946



M. J. van Steenis-Kruseman



F. H. Hildebrand



L. van der Pijl, 1954

Herb. Lugd. Bat.	<i>Chirochton doctessii Haems</i>
	Det. F. H. Hildebrand d.d. 11 / 1961

Herb. Lugd. Bat.	<i>Neolitheca sp.</i>
	<i>spid</i>